CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Sept. 25	Tulsa, Okla.	Aug. 24
Sept. 26	Mabton, Wash.	Sept. 21
Sept. 26	Hanover, Ill.	Sept. 21
Sept. 28	Poughkeepsie, N. Y. Adv. Sept. 14 and 21.	Sept. 14
Sept. 29	Cleveland, O.	Sept. 7
Oct. 1	Ponchatoula, La.	Aug. 3
Oct. 2	Glenwood Springs, Colo.	Sept. 21
Oct. 2	Saranac Lake, N. Y. Adv. Sept. 21.	Sept. 21
Oct. 3	Haines City, Fla. Adv. Sept. 7 to 21.	Sept. 7
Oct. 5	Marshall, Ill.	Sept. 14
Oct. 6	Memphis, Tenn. Adv. Sept. 21.	Sept. 21
Oct. 10	Greensboro, N. C. Adv. Sept. 14 and 21.	Sept. 14
Oct. 11	Binghamton, N. Y. Adv. Sept. 21.	Sept. 21
Oct. 19	Newark, N. J.	Sept. 7

SEWERS

Sept. 25	Hackensack, N. J.	Aug. 31
Sept. 25	Ellsworth, Wis.	Sept. 14
Sept. 26	Ft. Worth, Tex.	Sept. 7
Sept. 27	Chicago, Ill.	Sept. 21
Sept. 28	Lake Forest, Ill.	Aug. 31
Sept. 29	Chesterton, Ind.	Sept. 14
Oct. 2	Cape Girardeau, Mo. Adv. Sept. 14 and 21.	Sept. 21
Oct. 2	Saranac Lake, N. Y. Adv. Sept. 21.	Sept. 21
Oct. 2	Alexandria, La.	Sept. 21
Oct. 3	Toronto, Ont.	Sept. 7
Oct. 10	Syracuse, N. Y. Adv. Sept. 7 to 21.	Sept. 7
Oct. 10	Waseca, Minn.	Sept. 21
Oct. 16	State College, Pa. Adv. Sept. 21.	Sept. 21

WASTE DISPOSAL

Sept. 22	Trenton, N. J.	Sept. 7
Oct. 6	Charleston, W. Va. Adv. Sept. 21.	Sept. 21

BRIDGES

Sept. 26	Alabama	Aug. 31
Sept. 26	Toledo, O.	Sept. 7
Sept. 29	Los Angeles, Calif.	Sept. 14
Sept. 29	Stockton, Calif.	Sept. 21
Sept. 30	Washingtons Crossing (Taylorsville, Pa., P. O.), N. J. Adv. Sept. 21.	Sept. 21
Oct. 1	Siam	July 13
Oct. 6	Seattle, Wash.	Sept. 7
Oct. 9	White Plains, N. Y. Adv. Sept. 14 and 21.	Sept. 21
Oct. 16	Sacramento, Cal.	Sept. 14
Oct. 19	Chesterfield, S. C.	Sept. 21
Oct. 31	Sydney, Australia	Jan. 12
Jan. 23	Spokane, Wash.	Sept. 21
Sept. 1, 1923	Sydney, New South Wales, Australia	Aug. 3

EXCAVATION, DRAINAGE IRRIGATION

Sept. 26	Slayton, Minn.	Sept. 21
Sept. 27	Delaware	Sept. 14
Sept. 28	Eagle Point, Ore.	Sept. 21
Oct. 1	Kingstree, S. C.	Sept. 21
Oct. 3	Ft. Lauderdale, Fla. Adv. Sept. 14 and 21.	Sept. 21
Oct. 3	Merced, Calif.	Sept. 21
Oct. 3	Paradise, Calif.	Sept. 21
Oct. 7	Illinois Adv. Sept. 21.	Sept. 21
Oct. 27	Minneapolis, Minn.	Sept. 21

STREETS AND ROADS

Sept. 25	California	Sept. 7
Sept. 25	Ellsworth, Wis.	Sept. 14
Sept. 25	Lindsay, Calif.	Sept. 7
Sept. 25	Brooklyn, N. Y.	Sept. 21
Sept. 25	Bryan, Tex.	Sept. 21
Sept. 25	New York, N. Y.	Sept. 21
Sept. 26	Colorado	Sept. 21
Sept. 26	Chicago, Ill.	Sept. 21
Sept. 26	Delaware	Sept. 21
Sept. 26	New York, N. Y.	Sept. 21
Sept. 26	Alabama	Aug. 31

Bids Close		See Eng. News-Record
Sept. 26	Connecticut	Sept. 14
Sept. 26	Colorado	Sept. 14
Sept. 27	Wellington, Kan.	Sept. 7
Sept. 27	New Jersey Adv. Sept. 14 and 21.	Sept. 14
Sept. 27	Baltimore, Md.	Sept. 14
Sept. 27	Michigan	Sept. 14
Sept. 27	Long Island City, N. Y.	Sept. 21
Sept. 28	Missouri	Sept. 21
Sept. 28	Phila., Pa.	Sept. 21
Sept. 28	Michigan	Sept. 7
Sept. 28	New Mexico	Sept. 21
Sept. 29	Ebensburg, Pa.	Aug. 24
Sept. 29	Tulsa, Okla.	Sept. 7
Sept. 29	Iola, Kan.	Sept. 21
Sept. 29	Ohio	Sept. 21
Sept. 29	Chicago, Ill.	Sept. 21
Sept. 30	Cleveland, O.	Sept. 21
Oct. 1	Michigan	Sept. 21
Oct. 2	Alexandria, La.	Sept. 21
Oct. 2	Vevay, Ind.	Sept. 14
Oct. 2	Noroton Heights, Conn. Adv. Sept. 14 and 21.	Sept. 21
Oct. 2	Ontario	Sept. 21
Oct. 2	Syracuse, N. Y.	Sept. 21
Oct. 3	Quebec	Aug. 31
Oct. 3	Anderson, S. C.	Aug. 31
Oct. 3	Washington	Sept. 21
Oct. 4	Michigan	Sept. 21
Oct. 4	Bismarck, N. D.	Sept. 21
Oct. 4	Greenville, S. C.	Sept. 14
Oct. 6	Wellington, Kan.	Sept. 14
Oct. 6	Alabama	Sept. 21
Oct. 9	California	Sept. 21
Oct. 10	Ft. Myers, Fla.	Sept. 14
Oct. 13	Iola, Kan.	

INDUSTRIAL WORK

Sept. 24	Kansas City, Mo.	Sept. 21
Sept. 25	Springfield, Mo.	Sept. 14
Sept. 25	Richmond, Va.	Sept. 21
Sept. 26	Trenton, N. J.	Sept. 21
Sept. 26	Corinth, Miss. Adv. Sept. 14 and 21.	Sept. 14
Oct. 1	Williamsport, Pa.	Sept. 14
Oct. 3	Union Grove, IWs.	Sept. 21
Oct. 5	Marshall, Ill.	Sept. 14

BUILDINGS

Sept. 22	Lima, O.	Sept. 21
Sept. 25	Clark Summit, Pa.	Sept. 14
Sept. 25	West Orange, N. J.	Sept. 21
Sept. 25	Cinnaminson, N. J. Adv. Sept. 14 and 21.	Sept. 21
Sept. 25	Santa Rosa, Calif.	Sept. 21
Sept. 26	Glens Falls, N. Y.	Sept. 14
Sept. 27	Wash., D. C.	Sept. 7
Sept. 28	Ithaca, N. Y. Adv. Sept. 7 to 21.	Sept. 7
Sept. 28	Detroit, Mich.	Sept. 21
Sept. 29	Des Moines, Ia.	Sept. 21
Sept. 29	Jamestown, N. D.	Sept. 21
Sept. 30	Duluth, Minn.	July 13
Sept. 30	Vandergrift, Pa.	Sept. 21
Oct. 1	Duluth, Minn.	Aug. 3
Oct. 1	Bloomfield, Ia.	Sept. 21
Oct. 2	Cedar Rapids, Ia.	Sept. 14
Oct. 3	Sacramento, Calif.	Sept. 7
Oct. 6	Brookville, O.	Sept. 14
Oct. 10	Selma, Calif.	Sept. 21
Oct. 10	Baltimore, Md.	Sept. 21
Oct. 16	Altoona, Pa. Adv. Sept. 21.	Sept. 21
Oct. 17	Racine, Wis.	Sept. 21

FEDERAL GOVERNMENT WORK

Sept. 25	Power Boats—Staten Island, N. Y.	Sept. 21
Sept. 26	Repairing Walls—Savannah, Ga. Adv. Aug. 31 to Sept. 21.	Aug. 31
Sept. 27	Quarters — Ft. Bayard, N. M.	Aug. 31
Sept. 27	Portland Cement—Memphis, Tenn. Adv. Sept. 14 and 21.	Sept. 14
Sept. 28	Dredging—Buffalo, N. Y. Adv. Aug. 31 to Sept. 21.	Aug. 31
Sept. 28	Extension, etc.—Alexandria, La.	Sept. 7
Sept. 29	Post Office—Eureka, Utah	Sept. 7
Sept. 30	Stables—Edgewood Arsenal, Md. Adv. Sept. 21.	Sept. 21
Oct. 2	Steel Buoys—Staten Island, N. Y.	Sept. 21
Oct. 3	Spur Dikes—New Orleans, La. Adv. Sept. 21.	Sept. 21
Oct. 4	Telephone System—Tuskegee, Ala.	Sept. 14
Oct. 5	Dredging — New York, N. Y. Adv. Sept. 7 to 21.	Sept. 7
Oct. 6	Dredging — Wilmington, Del. Adv. Sept. 7 to 21.	Sept. 7
Oct. 6	Post Office — Charleston, W. Va. Adv. Sept. 14 and 21.	Sept. 14
Oct. 7	Cement—Wash., D. C.	Sept. 21
Oct. 10	Towboat—Mobile, Ala. Adv. Sept. 7 to 21.	Sept. 14
Oct. 11	Hospital — Tupper Lake, N. Y.	Sept. 21
Oct. 11	Remodeling — Mare Island, Calif.	Sept. 21
Oct. 11	Quarters, etc. — San Diego, Calif.	Sept. 21
Oct. 16	Earthwork—Yuma, Ariz.	Sept. 14
Oct. 18	Quarters—Edgewood, Md. Adv. Sept. 21.	Sept. 21
Oct. 23	Dump Scows — Nashville, Tenn. Adv. Sept. 21.	Sept. 21
Oct. 31	Dredging—Honolulu, H. T. Adv. Aug. 31 to Sept. 21.	Aug. 31

MISCELLANEOUS

Sept. 27	Snow Plow—Delaware	Sept. 14
Sept. 29	Cement—Turlock, Calif.	Sept. 21
Sept. 29	Coal Handling Plant—New York, N. Y.	Sept. 21
Oct. 2	Pier—Vancouver, B. C.	Sept. 7
Oct. 2	Gas Plant Equipment, etc.—Alexandria, La.	Sept. 21
Oct. 10	Steam Turbine, etc.—New Orleans, La. Adv. Aug. 17 to Sept. 21.	Aug. 17
Nov. 4	Transformers, etc. — Melbourne, Australia	Aug. 17
Dec. 18	Coal Handling Plant — Melbourne, Victoria, Australia Adv. Sept. 21.	Sept. 21

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Dundee—Plans election to vote on $125,000 bonds for water system. Engineer not announced. Noted Aug. 10.

N. Y., Voorheesville—Village Trustees, Hose House, takes bids in February, furnishing about 450 ton 8 in. Class "B" c.i. pipe, also constructing concrete reservoir, hauling and laying about 3½ mi. 8 in. Class "B" c.i. pipe. Former bids rejected. W. W. Chadsey, 434 State St., Schenectady, civil and sanitary engr. Noted Aug. 24.

Fla., Marianna—Plan election to vote on $25,000 bonds for extensions and betterments to waterworks system. H. A. Boides, clk.

O., East Liverpool — See "Streets and Roads."

O., Warren—Plans 6 in. mains in 200 ft. South Delaware St., 920 ft. Frances Ave., 200 ft. East Atlantic extension, 700 ft. Edgewood Ave., 300 ft. West Oak St., 1,020 ft. McKinley Ave., 1,100 ft. Quinby Ave., 1,050 ft. Delaware Ave., 1,100 ft. South Homewood Ave., 600 ft. East Front Ave., 1,300 ft. Albert St., 472 ft. Kinsman Ave., 1,000 ft. Peerless Ave., 1,000 ft. Choctaw Ave., 515 ft. Pawnee Ave., 770 ft. Viola Ave., 550 ft. Idelwild Ave., 500 ft. Arlington Ave., 1,020 ft. West Ave., 910 ft. West Front St., 1,420 ft. River Ave., 1,250 ft. Watson Ave., 1,100 ft. Atkins Ave.; 8 in. mains in 1,100 ft. South Main St. and 1,050 ft. South Park Ave. G. Hecklinger, city clk. Engineer not announced.

Minn., Owatonna—Plans steel tank, 31 ft. diam., 250,000 gal. capacity, also tower 65 ft. high. $15,000. Toltz, King & Day, 1410 Pioneer Bldg., St. Paul, engrs.

Tex., Tulia—Oct. 12, to vote on $50,000 bond issue for water extensions.

Wash., Camas—Having plans prepared waterworks improvement, incl. 7 mi. wood pipe. $40,000. Stevens & Koon, Spalding Bldg., Portland, Ore., engrs.

Waterworks (Continued)

Wash., Kelso—See "Buildings."

Wash., Spokane—North Spokane Irrigation Dist. having plans prepared 100,000 gal. stand pipe and steel tank, 60 ft. tower, and 5-6 mi. of 4-12 in. c.i. pipe. $75,000. O. Weile, Peyton Bldg., engr.

Wash., Spokane—Having plans prepared and takes bids early in 1923, pumping outfit, one unit of 1,000 hp., 50,000 gal. per day, housing, 1 well 50 ft. diam. and 55 ft. deep, $65,000; new foundation for pump in old plant, 300 hp. engine, $15,000; 10,000 ft. 6 in. c.i. pipe, to replace wooden pipe, $17,500; rein.-con. reservoir, 20,000,000 gal. capacity, $14,000. A. Lindsay, city engr.

Calif., Napa—State having plans prepared water work system for state hospital, here. $175,000. State Dept. of Architecture, Forum Bldg., Sacramento, engrs.

Calif., Williams—Plan election to vote on $50,000 bonds constructing waterworks system. C. E. Sloan, Santa Fe Bldg., San Francisco, consult. engr.

Ont., Collingwood—Plans new intake pipe for waterworks. $25,000. T. B. Ivey, city engr. Prices wanted on equipment.

BIDS DESIRED

N. Y., Binghamton—Oct. 11, by State Hospital Comn., Albany, construction and repairs to reservoir at Binghamton State Hospital, here. L. F. Pilcher, Albany, state archt.; adv. this issue.

N. Y., Saranac Lake—Oct. 2, by S. A. Miller, clk. Sewer and Water Bd., extending existing water distribution system. J. L. Collins, 30 Church St., New York, engr.; adv. this issue.

Tenn., Memphis—Oct. 6, by Bd. Comrs. Memphis Artesian Water Dept., rein.-con. reservoir and rein.-con. substructures of pumping station, iron removal plant and aerator, also furnishing and installing c.i. pipe, valves, drains and appurtenant structures, Contr. 6. Fuller & McClintock, 421 Produce Exch. Bldg., Kansas City, Mo., engrs.; adv. this issue.

Ill., Hanover — Sept. 26, by Bd. of Trustees, Woodman Hall, 17,163 lin.ft. 4-8 in. c.i. pipe in place, 10,821 lb. specials, 31 gate valves, 20 fire hydrants, 480 lin.ft. 8 and 10 in. pipe (river crossing), 600 lb. specials (river crossing), 1 centrifugal pump, 400 g.p.m., one 25 hp. single phase motor, 1 elevated steel tank, 40,000 gal. capacity, on 70 ft. steel tower. C. Fisher, pres. J. C. Thorne, 317 Howes Blk., Clinton, Ia., consult. engr.

Colo., Glenwood Springs—Oct. 2, by City Counsel, 4,100 ft. tunnel and 1,500 ft. concrete and metal flume and appurtenances thereto for city water supply. $75,000. M. L. Miller, 203 Boston Bldg., Denver, engr.

Wash., Mabton—Sept. 26, by City Clerk, additions and improvements to, also extension to present water system, wood pipe. $15,000. C. F. Wilson, Yakima, engr.

Que., Montreal—Executive Com. receiving bids watermains in Sherbrooke St. $92,400. H. G. Tetreault, dir. pub. wks.

BIDS RECEIVED

Pa., Phila.—F. H. Caven, dir. pub. wks., opened bids Sept. 12, furnishing and installing 3 chlorinators, from Wallace & Tiernan, Weidner Bldg., $15,000. Noted Sept. 7.

Wash., Walla Walla—For 6,000 ft. 6 in. steel converse pipe for improving waterworks, from Crane Co., 14th and Irving Sts., Portland, $86 per 100 ft. for galvanized, and $95 per 100 ft. for dipped pipe.

Calif., Grenada — Grenada Irrigation Dist., rebuilding pumping plants from L. Youdall, Commercial Savings Bldg., Stockton, $5,255. P. Butte, 534 Folsom St., San Francisco, $6,527; structures for 24 mi. canals, incl. checks, 74 corrugated metal turnouts, etc., from D. M. Reid, Grenada, $7,369, M. Steuart, Grenada, $8,985; ditches, 14 mi. new canal, involving 30,000 cu.yd. excav., also deepening 7 mi. present canals, from G. Milne, Ft. Jones, new ditches $6,327, enlargements $12,344; reconstructing dam and concrete lining of pumping plant sump and div. canal, from M. Steuart, Grenada, $14,961, L. Youdall, Commercial Savings Bldg., Stockton, $17,440. Noted April 13.

Calif., Lakeport—Mains and sewer pipe, from American Cast Iron Pipe Co., Balboa Bldg., San Francisco, 6, 8 and 10 in. pipe $56.65 per ton f.o.b. cars Hopland, 4 in. pipe $60.55 f.o.b. cars Hopland, 4 in. fittings $0.06 per lb., larger fittings $0.055; United Cast Iron Pipe & Fdry. Co., Monadnock Bldg., San Francisco, 6, 8 and 10 in. pipe $61.10 per ton f.o.b. cards Hopland, 4 in. $57.10 f.o.b. Hopland, 4 in. fittings $0.0615 per lb., larger fittings $0.0565 per lb., wyes $0.0665 per lb., plugs $2.50 each; Central Fdry Co., Rialto Bldg., San Francisco, 4 in. (Universal joint pipe) $0.71 per ft., 6 in. $1, 8 in. $1.47, 10 in. $2.16, total for pipe $52,405, total for fittings $2,659; Gladding McBean Co., Crocker Bldg., San Francisco, 8,500 ft. 8 in. sewers $0.50, 100 wyes $1, twenty-five 8 in. tees $1, one hundred 6 in. bends $1.40. Noted July 6.

CONTRACTS AWARDED

Fla., Orlando—Renovating and enlarging water plant, cranes to Arlington Eng. Co., Euclid, O. (street address not available), $2,500; condensers to D. H. Wheeler, New York City, (street address not available) $11,560; wiring to Johnson Electric Co., Orlando; boilers to Springfield Boiler Co., 1901 East Cap Ave., Springfield, Ill., $27,-114; superheaters to Power Specialty Co., 111 Bway., New York City, $4,100; stack to Rust Eng. Co., Atlanta, Ga., (street address not available) $3,360; steel tank to Chicago Bridge and Iron Wks., 105th and Throop Sts., Chicago, $3,360; cleaning water mains to National Co., New York City, $8,384; pumps to Morris Machine Wks., 41 Cortlandt St., New York City, $4,785; filtration equipment to International Filter Co., 38 South Dearborn St., Chicago, $17,-446; valves to Ludlow Valve Co., Ft. Adams St., Troy, N. Y., $5,553; fire hydrants to Columbia Iron Wks., 811 Boyce St., Chattanooga, Tenn., $2,784; water meters to Gamon Meter Co., 282 South St., Newark, N. J., $17,682; venturi meter to Simplex Valve Co., 5722 Race St., Phila., Pa., $1,048; water pipes to United States Cast Iron Pipe Co., 71 Bway., New York City, cost to be determined by amount used. Noted Jan. 26.

Mich., Detroit—Furnishing 500 ton 6 in. and 500 ton 8 in. c.i. water pipe, to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Ave., Chicago, Ill., $46 per ton, total $46,000.

Ill., Altamont — Waterworks improvements, to James & Shirm Co., Mattoon, $10,000. Noted July 27.

Minn., Shakopee—Watermain extensions, 3,820 lin.ft. 6 in. c.i. pipe; sewer extensions, 4,666 lin.ft. 8 in. vitr. pipe, to O'Neil & Preston, 608 Exch. Bank Bldg., St. Paul, $18,000. Noted Aug. 17.

Minn., Stewart—See "Sewers."

Minn., Thief River Falls—Waterworks improvements, 1,000,000 gal. capacity filtration plant, incl. plant building and motor house, to C. M. Carlson, Thief River Falls, $19,100; filter and pump equipment, to J. G. Robertson, 2542 University Ave., St. Paul, $15,170. Noted Aug. 31.

Calif., Sacramento—Rapid sand filtration plant, to Mathews Constr. Co., Forum Bldg., $771,957. Noted Sept. 7.

Sewers

PROPOSED WORK

N. Y., Dundee—Plans election to vote on $70,000 bonds for new sewerage system. Engineer not announced.

N. Y., Rochester—Plans storm, water and outlet sewer in Meriden St. and other streets, 23rd Ward. $60,000. C. A. Poole, city engr.

N. Y., Rochester—See "Streets and Roads."

Pa., Carbondale—Plans storm water flow sewer in Harlem Ave. $25,000.

O., East Liverpool — See "Streets and Roads."

Mich., Ferndale—Having plans prepared 11,400 ft. sewer extension in Nine Mile Rd. and other streets, incl. 5,000 ft. 15 in., 4,000 ft. 18 in., and 2,400 ft. 24 in. vitrified or cast cement pipe. $40,000. G. Jerome, 1331 Majestic Bldg., Detroit, engr.

Mich., Ferndale—Plans vitr. crock, segment block and brick sewers in Bermuda Ave., 650 ft. 22 in., 979 ft. 20 in. and 616 ft. 18 in. pipe; Stafford Ave. from Rockwell to Oakridge Aves., 452 ft. 18 in., 1,082 ft. 20 in. and 1,062 ft. 22 in. pipe; Albany Ave. from Stafford to Rockwell Aves., 829 ft. 24 in., 700 ft. 22 in., 574 ft. 20 in. pipe; Payton Ave., 1,023 ft. 18 in. pipe; Planavon Ave., 137 ft. 15 in. and 699 ft. 18 in. pipe; Lewiston Arm, 920 ft 24 in. pipe; Allen Ave., 1,168 ft. 18 in. and 295 ft. 15 in. pipe. $135,000. G. Jerome, 1331 Majestic Bldg., Detroit, engr.

Tex., Tulia—Oct. 12, to vote on $50,000 bond issue for sewers.

Calif., Oakland—Had plans prepared 17,-960 lin.ft. 8 in. vitr. pipe sewers, etc., in Melrose Acres. W. W. Harmon, city engr.

Calif., Sanger—Plan to vote on bonds for 23,760 lin.ft. 6 in. and 2,138 lin.ft. 8 in. vitr. sewers, 3,930 ft. 30 in., 1,414 ft. 28 in., 1,980 ft. 14 in., 1,760 ft. 12 in and 650 ft. 8 in. precast concrete pipe, etc. R. C. Phillips, Sanger, engr.

Ont., Sandwich—Plans extending sewerage system. $25,000. E. R. North, city engr. Prices wanted on materials.

BIDS DESIRED

N. Y., Saranac Lake—Oct. 2, by S. A. Miller, clk. Sewer and Water Bd., 6 and 8 in. sewers. J. L. Collins, 30 Church St., New York, engr.; adv. this issue.

Pa., State College — Oct. 16, by Town Council, 2,700 lin.ft. 36 in. storm water sewer, also 13,500 lin.ft. 4, 6, 8 and 10 in. sanitary sewers. H. B. Shattuck, boro. engr.; adv. this issue.

La., Alexandria—Oct. 2, by Comr. of Council, complete storm sewer, in 7th St., 3,483 cu.yd. concrete, 389,700 lb. reinforcing, 9,000 cu.yd. excav. V. M. Ake, secy.

Ill., Chicago—Sept. 27, by Bd. Local Impvts., 207 City Hall, sewers in various streets. $2,000,000. C. D. Hill, ch. engr.

Minn., Waseca—Oct. 10, 30,000 ft. outlet sewers and sewage disposal plant. $100,-000. W. E. Buell & Co., 205-207 Davidson Bldg., Sioux City, Ia., engrs. Noted Feb. 16.

Mo., Cape Girardeau—Oct. 2, by City Council, Council Chamber, combined sanitary and storm sewerage system in Sewer Dist. 5. C. E. Smith & Co., 2073 Railway Exch. Bldg., St. Louis, consult. engrs.; adv. this issue.

Que., Montreal — Executive Com taking bids sewers, $61,280. H. A. Tetreault, dir. pub. wks.

BIDS RECEIVED

N. Y., New York—H. Bruckner, pres. Bronx Boro, opened bids Sept. 12, sewers in (1) West Kingsbridge Rd., (2) Philip Ave., (3) Lafayette Ave., (4) Liebig Ave., (5) White Plains Ave., etc., from M. Del Balso, 660 East 221st St., (1) $2,952; Spadero & Turrano, (1) $3,113; McLaughlin & Buckley, 337 East 134th St., (1) $3,601, (2) $17,304, (4) $5,000, (5) $28,-828; J. V. Timmoney Constr. Co., 320 East 201st St., (2) $14,937; Knight & Dimicco, 448 East Tremont Ave., (2) $15,827, (3) $14,878; F. Gasperini, (3) $15,295; Gregorri & Gabrielle, (4) $4,844; Fordham Contg. Co., (4) $5,008, (5) $28,841; C. McDonald, (5) $31,713. Noted Sept. 7.

O., Cleveland—Sewers in Carnegie Ave. from East 100th to East 107th Sts., from C. Joseph, 877 Orange Ave., $10,118, D. Zullo, 10501 Hudson Ave., $10,671; Pearl Rd. relief sewer, from Manson Co., Engineers Bldg., $57,783, Randall & Cooper, Lorain, $67,840; Aspinwall Ave. and Saranac Rd., from Manson Co., Engineers Bldg., $27,957, River Constr. Co., Schofield Bldg., $32,317; Roseland Ave., from Hadded-Mall Co., Schofield Bldg., $16,720, A. Marra, Ulmer Bldg., $17,686. Work involves 880 ft. 6 ft. and 905 ft. 5 ft. 9 in. circular segment sewer, 2,300 ft. 15-24 in. vitr. tile pipe, 190 ft. of 9 ft. egg shape and 1,350 ft. 4 and 6 ft. circular brick sewer, 1,340 ft. 3-6 ft. egg shape sewer.

O., Marion—E. A. Schultz, dir. Pub. Serv., opened bids Aug. 31, sewage plant, Contr. A, from A. Bentley & Son, 201-31 Belmont Ave., Toledo, $435,100; P. Drake & Son, Marion, $508,813; sewerage system, Contr. B, from Kohlbarger & Hoyles, Marion, $76,316, Harris, Andrews & Henderson, Youngstown, (street address not available), $80,619. Noted Aug. 17.

Ore., Portland—Opened bids constructing Lents trunk sewer, (monolithic), (1) Sects. A and B, (a) with progress payments, (b) without progress payments, (2) Sects. A and C, (a) with progress payments, (b) without progress payments, from J. F. Shea, Henry Bldg., (1a) $693,110, (1b) $723,620, (2a) $709,333, (2b) $739,308; Jacobsen-Jensen Co., 407 Stanton St., (1a) $698,450, (1b) $726,190, (2a) $724,698, (2b) $749,988; Miracle Concrete Corp., (1a) $719,333, (1b) $759,872. Noted Feb. 23.

CONTRACTS AWARDED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, to D. Bonnacci, 672 Degraw St., relief sewers in Pitkin Ave. $20,-047, New York Ave. between East New York Ave. and Empire Blvd. $14,246, East 39th St. $9,029, 18th Ave. $6,894, New York Ave. between Midwood and Hawthorne Sts. $2,613, Ridge Blvd. $2,536; to Nazzaro & Quierriero, 6712 11th Ave., East 13th St.

Sewers (Continued)

$5,863; to S. Ambrosio, 1016 60th St., 55th St. $4,565, sewer basins on southwest corner Foster Ave. and East 26th St. $401, northeast corner Ave. K and East 8th St. $326; to Murphy Bros., 262 Bay 43rd St., relief sewer in Creamer St. $3,793. Noted Sept. 7.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, repairing sewer in Foster Ave., to Necaro Co., 94 Court St., $104,060; Greene Ave., to D. Bonnacci, 672 McGraw St., $24,506. Noted Aug. 31.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Hosack St., etc., to J. Gallo, 203 Division St., Brooklyn, $53,793; Atfield Ave., to D. A. Gross, 895 Fulton St., Woodhaven, $4,212. Noted Aug. 24.

N. Y., Syracuse—Bd. Contr. & Supply, sewer in East Fayette St., to C. Bonn, 207 Delhi St., $51,648. Engrs. est. $125,000.

Ky., Madisonville—Bd. Pub. Wks., 9.2 mi. 8-12 in. sanitary sewers, to Moreno Burkham Constr. Co., Syndicate Trust Bldg., St. Louis, Mo., $65,400. Noted Aug. 31.

O., Sebring—J. G. Eardley, village clk., sewage disposal plant, to D. E. Beattie Co., Akron (street address not available), $52,500. Noted Aug. 31.

Ill., Havana—Sewers in various streets, to W. O. Anno, Havana, $13,633, and James & Anderson, Wood River, $12,947. Noted Aug. 24.

Minn., Shakopee—See "Waterworks."

Minn., Stewart—Sanitary sewerage system, 17,916 lin.ft. 812 in. vitr. pipe, 48 lin. ft. 10 in. c.i. pipe, 2 flush tanks, 45 manholes, etc.; watermain extensions, 6,280 lin. ft. Class B 6 in. c.i. pipe, etc., to O. N. Gjellefald Constr. Co., Forest City, Ia. Noted Aug. 17.

Mich., Detroit—To W. Blanck Co., 823 Ford Bldg., Melbourne Ave. Arm Bates St. Sewer, $33,968, Mound Ave. Arm of Seven Mile Rd. Sewer, $31,300; Liberty Constr. Co., 1026 Detroit Savings Bank Bldg., Raymond Ave. Sewer extension, $5,770; to Western Constr. Co., 1028 Ford Bldg., Lateral Sewer 3820, $8,238, Lateral 3721, $9,816. Noted Sept. 7.

Mich., Detroit—To T. A. Gillespie Co., 50 Church St., New York, 11,396 ft. Connors Creek Sewer, Sect. 2, and Public Park Site Sewer, rein.-con., double barrel section, 12 ft. x 17 ft. 6 in., $1,246,028. Noted Sept. 14.

Mo., Plattsburg—Sewers and disposal plant, to Burt & Tripp, Hutchinson, Kan., $56,805.

Nev., Gardnerville—Comrs. Douglas Co., Minden, to Gladding, McBean & Co., Crocker Bldg., San Francisco, Calif., furnishing vitr. salt glazed sewer pipe, Schedule 1, 5,280 lin.ft. 6 in. at $0.245, 3,960 ft. 8 in. $0.35, 3,350 ft. 10 in. $0.49, 5,260 ft. 12 in. $0.63, etc. total $7,998; Christensen & Co., 220 Maple St., Reno, excavating and backfilling for sewers and water pipe, etc., Schedule 7, 6,000 cu.yd. excav. and backfill $0.95, septic tank, $175, etc., total $5,875, for Schedule (8b) excavating waste and drain ditches, 1,800 cu.yd. $0.70, (8c) mixing and placing concrete, 135 cu.yd. $13, etc., total $3,714. Noted Aug. 17.

Waste Disposal

BIDS DESIRED

W. Va., Charleston—Oct. 6, by L. H. Barringer, city mgr., garbage incinerator; adv. this issue.

CONTRACTS AWARDED

Ont., Chatham—C. H. R. Fuller, city engr., garbage incinerator and machinery, to Canadian Incinerator Co., Yonge St., Toronto, $10,792; general contract, to G. W. Culler & Co., Chatham (street address not available), $12,600; chimney to W. Summerhays, 1 Exch. St., Rochester, N. Y., $2,792. Noted July 13.

Bridges

PROPOSED WORK

Pa., Media—Delaware Co. will sell $400,000 bonds for construction of 16 bridges of various sizes. R. J. Aydlotte, co. engr.

Minn., Crookston—Polk Co. plans Bridge 3880, steel truss, probably two 170 ft. and one 150 ft. spans, over Red Lake River, Gentilly Twp. $30,000. J. T. Ellison, State Hy. Dept., 1246 University Ave., St. Paul, bridge engr.

Wash., Prosser—Benton Co. plans bridge, seven 80 ft. and two 53 ft. spans, concrete piers, 500 cu.yd. earth approach and fill. Bids will be taken in spring. $35,000-$40,000. E. H. Stradling, co. engr.

SEWAGE TREATMENT WORKS—MARION, O.

Following are lowest three bids opened Aug. 31, by city for constructing sewage treatment works, Contr. "A." (A) A. Bentley & Sons Co., Marion Ave., Toledo; (B) P. Drake & Sons, Marion; (C) River Constr. Co., Scofield Bldg., Cleveland. The unit bids were as follows:

	A		A	B	C
	Material	Labor	Material and Labor	Material and Labor	Material and Labor
150 lin. ft. drilling well	$4.00	$4.00	$4.00	$4.00	$4.50
Engineer's office (lump sum)	925.00	925.00	925.00	1,000.00	600.00
41,000 cu.yds earth excavation, class A	0.75	0.75	0.90	0.90	1.00
8,000 cu.yds. earth excavation, class B	1.00	1.00	1.50	3.50	3.00
100 cu.yds rock excavation	1.00	1.00	1.00	8.00	8.00
2,100 cu.yds. concrete, class A	10.00	10.00	13.30	20.00	14.75
700 cu.yds. concrete, class B	10.00	10.00	11.00	23.00	14.75
3,100 cu.yds. concrete, class C	12.00	12.00	18.00	21.00	15.75
210 cu.yds. concrete, class D	12.00	12.00	20.00	26.00	16.00
525 cu.yds. concrete, class E	10.00	20.00	25.00	32.00	20.00
50 bbl. additional Portland cement	3.20	3.20	3.20	3.50	4.00
220 sq.yds. special surfacing of concrete	1.00	1.00	1.44	1.50	8.25
460 lin. ft. expansion joints	1.00	1.00	1.00	0.40	1.00
700,000 lb. steel reinforcement	0.02	0.03	0.04	0.05	0.03½
110 ton bell and spigot cast iron pipe	80.00	80.00	80.00	85.00	90.00
17 tons flanged cast iron pipe	100.00	100.00	133.00	205.00	112.00
20 ton bell and spigot standard fittings	100.00	100.00	184.00	390.00	140.00
7 tons flanged standard fittings	200.00	200.00	234.00	450.00	180.00
11 tons special fittings	300.00	300.00	309.00	450.00	200.00
100 tons universal cast iron pipe	80.00	80.00	88.00	140.00	112.00
10 tons universal cast iron pipe fittings	200.00	200.00	218.00	500.00	180.00
2,000 lin.ft. 3-in. galvanized iron pipe	1.00	1.00	1.08	1.40	0.85
100 lin.ft. 2½-in. galvanized iron pipe	0.80	0.80	0.85	0.35	0.65
1,000 lin.ft. 2-in. galvanized iron pipe	0.50	0.50	0.60	0.30	0.40
100 lin.ft. 1½-in. galvanized iron pipe	0.40	0.40	0.48	0.25	0.30
250 lin.ft. 1-in. (or smaller) galv. iron pipe	0.30	0.30	0.33	0.20	0.20
10 1-in. gate valves	2.00	2.00	2.05	2.50	2.10
5 1½-in. gate valves	2.00	2.00	2.75	3.10	3.00
50 2-in. gate valves	4.00	4.00	4.05	4.10	4.00
5 3-in. gate valves	8.00	8.00	8.00	7.50	7.25
51 4-in. gate valves	10.00	10.00	10.65	13.00	10.00
2 6-in. gate valves	15.00	15.00	18.60	21.00	17.00
72 8-in. gate valves	30.00	30.00	32.10	35.00	32.00
2 10-in. gate valves	44.00	44.00	44.16	50.00	48.00
1 12-in. gate valve	60.00	60.00	61.20	66.00	64.00
9 24-in. gate valves	250.00	250.00	257.57	260.00	270.00
4 6-in. shear gates	20.00	20.00	20.31	29.00	25.00
1 8-in. shear gate	20.00	20.00	23.78	34.00	30.00
2 6-in. sluice gates	30.00	30.00	33.30	54.00	52.00
8 8-in. sluice gates	40.00	40.00	40.60	75.00	75.00
8 12-in. sluice gates	50.00	50.00	56.20	88.00	83.00
5 14-in. sluice gates	60.00	60.00	67.50	111.00	103.00
4 24-in rectangular sluice gates	100.00	100.00	185.00	275.00	250.00
1 24-in. circular sluice gate	100.00	100.00	162.00	310.00	275.00
10 adjustable valve boxes and covers	8.00	8.00	8.20	14.00	7.25
110 lin.ft. 1-rail iron pipe railing	2.00	2.00	2.40	1.20	0.75
125 lin.ft. 2-rail iron pipe railing	3.00	3.00	3.12	1.80	1.25
50 lin.ft. 4-in. vitrified pipe	0.30	0.30	0.30	0.20	0.14
6,000 lin.ft. 6-in. vitrified pipe	0.35	0.35	0.35	0.27	0.20
250 lin.ft. 8-in. vitrified pipe	0.54	0.54	0.54	0.40	0.30
Vitrified pipe specials, % discount	.....	.....	40%	60%	60%
2,150 lin.ft. 4-in. agricultural drain tile	0.08	0.08	0.08	0.06	0.11
100 lin.ft. 6-in. agricultural drain tile	0.11	0.11	0.11	0.10	0.15
33,000 lb. miscellaneous cast iron work	0.13	0.13	0.13	0.08	0.06
22,500 lb. miscellaneous wrought iron and steel work	0.14	0.14	0.14	0.10	0.05
12 M. ft. B.M. miscellaneous wood work	120.00	120.00	120.00	180.00	75.00
Buildings (lump sum)	.....	.....	29,000.00	22,000.00	28,315.00
Steam heating equipment (lump sum)	2,000.00	2,000.00	3,335.00	4,200.00	3,370.00
Electric wiring for lights (lump sum)	2,400.00	2,400.00	2,455.00	1,700.00	2,930.00
Plumbing (lump sum)	1,100.00	1,100.00	1,411.00	1,000.00	1,500.00
Sludge bed covering (lump sum)	.....	.....	20,050.00	22,000.00	22,640.00
600 cu.yd sand for sludge beds	2.00	3.00	4.00	2.00	2.75
40 cu.yd. gravel for sludge beds	3.00	4.00	5.00	2.00	2.75
1,400 sq.yd. special tamping	0.10	0.10	0.12	0.12	0.25
22,500 cu.yd. filtering material	3.00	3.00	3.30	2.25	3.50
6,760 sq.yd. trickling filter floor system	1.00	1.00	1.10	4.50	10.00
336 filter nozzles	1.00	1.00	1.90	2.00	25.00
Filter dosing equipment (lump sum)	5,000.00	5,000.00	5,626.00	6,800.00	4,350.00
Sludge ejector and piping (lump sum)	1,000.00	1,000.00	1,800.00	2,000.00	10,000.00
Pumping equipment and appurt. (lump sum)	10,000.00	10,000.00	12,042.00	19,785.00	18,450.00
Industrial equipment (lump sum)	2,000.00	2,000.00	2,528.00	5,000.00	2,631.00
Venturi meter and piping (lump sum)	2,000.00	2,000.00	2,250.00	3,000.00	2,850.00
40 sq.ft. vault lights (fixed)	3.00	3.00	3.05	1.25	5.00
450 sq.ft. vault lights (hinged)	7.00	7.00	7.85	1.50	6.00
Control gates (lump sum)	500.00	500.00	500.00	300.00	150.00
Painting (lump sum)	500.00	500.00	847.00	1,000.00	500.00
445 lin.ft. by-pass and overflow conduits	8.00	8.00	8.65	3.50	7.10
4,400 sq.yd. waterbound macadam roadway	1.00	1.00	1.25	1.50	3.00
1,700 lin.ft. gutters	1.00	1.00	1.00	1.00	0.45
930 sq.yd. walks	0.75	0.75	0.75	1.00	2.00
5,000 cu.yd. loam	1.00	1.00	1.45	0.75	0.75
3,150 sq.yd. sodding	0.40	0.40	0.45	0.50	1.75
11.5 acres seeding	58.00	58.00	58.00	50.00	25.00
1,030 lin.ft. fencing	0.10	0.10	0.18	0.18	0.50
5 hydrants	30.00	30.00	36.50	75.00	15.00
Extended totals			$435,101	$508,814	$544,415

BIDS DESIRED

N. Y., White Plains—Oct. 9, at office F. L. Merritt, clk. Bd. Supervs. Westchester Co., Court House, rein.-con. arch bridge over Croton River at site of present Van Cortlandt Bridge, on Albany Post Rd. between towns of Cortlandt and Ossining; adv. this issue.

N. J., Washingtons Crossing (Taylorsville, Pa., P. O.)—Sept. 30, by Joint Comn. for Elimination of Toll Bridges over Delaware River between New Jersey and Pennsylvania, State House, Trenton, repairs to bridge over Delaware River, here. L. Focht, engr.; adv. this issue.

Pa., Phila.—See "Streets and Roads."

S. C., Chesterfield—Oct. 19, by Bd. Comrs. Chesterfield and Lancaster Counties, rein.-con. bridge over Lynches River at Cooks Mills between Chesterfield and Lancaster Counties, seven 43 ft. spans on rein.-con. piers.

Ohio—See "Streets and Roads."

Wash., Trent (Irvin P. O.)—Jan. 23, by H. S. Baker, engr. Spokane Co., (Spokane), 320 ft. concrete bridge, 3 spans, here. $60,000-$65,000.

Calif., Stockton—Sept. 29, by City Council, 202 ft. rein.-con. girder "T" beam type bridge, 60 ft., over Mormon Channel, on Center St., sub-structure to be pre-cast rein.-con. piling with monolithic cap. W. B. Hogan, city engr. Noted Aug. 31.

BIDS RECEIVED

Pa., Phila.—F. H. Caven, dir. pub. wks., opened bids removing steel girder bridge and piers and building 380 ft. new steel

Bridges (Continued)

girder bridge encased in concrete, 80 ft. wide, 40th St. and Pennsylvania R.R., from Monaghan & Loossee, 3016 Chestnut St., $258,370; Munday Paving Co., 22820 Alden St., $278,000. Noted Aug. 31.

S. D., Woonsocket—Sanborn Co. opened bids Sept. 16, bridge on Federal Aid Project 50, Sect. C, over James River, 340 ft. long, 18 ft. roadway, with center steel truss of 100 ft., from Great Northern Bridge Co., 225 Kasota Bldg., Minneapolis, Minn., $25,558; Iowa Bridge Co., 1263 East 19th St., Des Moines, Ia., $27,855; Pioneer Bridge Co., Mitchell, $27,880.

Tex., San Angelo—Tom Green Co. 500 ft. steel and concrete bridge over North Concho River on Highway 7, 200 ft. concrete cantilever span, 1,563 cu.yd. concrete, 358,928 lb. reinforcing, (a) county furnishing materials, (b) contractor furnishing materials, from Van Orden-Winans Constr. Co., Ft. Worth, (street addres not available), (a) $58,973, (b) $62,277; Brown-Abbott Bridge Co., Loraine, (a) $60,671, (b) $66,757; Austin Bros. Bridge Co., Coombs St., Dallas, (a) $62,200, (b) $66,807. Engrs. est. $75,000.

California—State Hy. Dept., Sacramento, bridge and railroad abutment over Susan River, near Fredonia, Lassen Co., (1) 430 cu.yd. Class A portland cement concrete, (2) 65 cu.yd. Class B portland cement concrete, (3) 395 cu.yd. Class C portland cement concrete, from Rocca & Calettl, San Rafael, (1) $35, (2) $35, (3) $20, total $25,225; C. H. Gildersleeve, San Francisco, (street address not available) (1) $45, (2) $44, (3) $38, total $37,220. Noted Aug. 24.

CONTRACT AWARDED

Del., Laurel—State Hy. Dept., Dover, superstructure for 1 span Scherzer rolling lift bridge, here, Contr. 41-A, to A. S. Fox & Co., Callahan Bank Bldg., Dayton, O., $24,384. Noted Aug. 31.

Ga., Atlanta—Viaduct on Spring St., to Nicholas Constr. Co., Atlanta, (street address not available) $513,877; steel work to Virginia Bridge & Iron Co., Roanoke, Va., $102,925. Noted July 20.

Ga., Savannah—State Hy. Depts., Georgia and South Carolina bridge over Savannah River, trestles and pier work to O. Otto, Savings Bank & Trust Bldg., $313,667; clearing and earth fills to A. P. Twiggs & Son, Herald Bldg., Augusta, $165,523. Noted Aug. 17.

Miss., Vicksburg—Warren Co., Baldwins Ferry Bridge over Big Black River, to Newsom Bros. & Millis, Goss, 346.2 cu.yd. concrete $23, 9,730 lb. reinforcing steel $0.055, 10,310 ft. b.m. untreated lumber $60, 183,940 ft. b.m. creosoted lumber $20, 1,200 lin.ft. untreated piling $0.75, 6,950 lin.ft. creosoted piling $1.05, 307 lin.ft. gas pipe railing $0.75, 717.8 sq.yd. asphalt paving $3.50, etc., total $32,835; 182,660 ft. b.m. creosoted lumber, to Hattiesburg Creosoting Co., Hattiesburg, $10,950. Noted Aug. 17.

Tennessee—State Hy. Dept., Nashville, superstructure for Clarksville Bridge over Cumberland River, Federal Aid Project 16, to Nashville Bridge Co., foot of Shelby Ave., Nashville, $88,119. Noted Aug. 24.

O., Moraine (Dayton P. O.)—Comrs. Montgomery Co. (Dayton) two 125 ft. steel truss span bridge here, to Brookville Bridge Co., Brookville, $68,700. Noted March 30.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, following bridges (1) 2 concrete substructures for steel spans and 4 concrete approach spans, Route 1, Sect. 29-B, Saline Co., (2) 1 superstructure for steel, Route 1, Sect. 29-C, Saline Co. (3) 1 concrete Route 1, Sect. 30-B, Saline Co. (4) 4 concrete Route 1, Sect. 31-B, Saline Co. (5) 2 concrete bridges and concrete approach spans Route 1, Sect. 33-B, Saline Co. (6) steel superstructure for steel Route 1, Sect. 33-C, Saline Co. (7) 2 concrete Route 1, Sect. 34-B, Williamson-Johnson Co. (8) 2 concrete Route 1, Sect. 37-B, Johnson Co. (9) 1 steel superstructure Route 1, Sect. 46, Iroquois Co. (10) 9 concrete Route 3, Sect. 8-B, Rock Island Co. (11) 4 concrete Route 3, Sect. 39-B, McDonough Co. (12) 2 concrete Route 3, Sect. 71-B, Randolph Co. (13) 1 steel superstructure Route 4, Sect. A-1, Cook Co. (14) repairing 1 steel Route 7, Sect. B-1, La Salle Co. (15) substructure for steel Route 8, Sect. 32-B, Woodford Co. (16) superstructure for steel Route 8, Sect. 32-C, Woodford Co. (17) 3 concrete Route 12, Sect. 15-B, Marion Co. (18) 1 concrete Route 20, Sect. 12-B, Lake Co. (19) concrete approach spans Project 26, Sect. 20-B, Logan Co. (20) 1 steel superstructure Project 26, Sect. 20-C, Logan Co. (21) 2 concrete Project 30, Sect. 17-B, Will Co. (22) concrete approach spans and substructure for steel Route 33, Sect. 43-B, Fulton Co. (23) superstructure for steel Route 33, Sect. 43-C, to D. Jenkins, 501 Gilbert Ave., Terre Haute, Ind., (1) $22,681 (5) $26,585; Rochester Bridge Co., Rochester, Ind., (2) $16,071 (13) $11,772 (16) $10,035; M. & P. Contg. Co., Rockport, Ind., (3) $3,380; W. H. Shons Co., 109 Spring St., Freeport, (4) $14,359 (14) $990; International Steel and Iron Co., 1243 Edgar St., Evansville, Ind., (6) $6,382; Roth Bros. & Akers, Ottumwa, Ia., (7) $5,890 (8) $10,725 (18) $17,808; Continental Bridge Co., Monadnock Blk., Chicago, (9) $4,193; Hawlett Constr. Co., Moline, (10) $13,181; H. C. Holmes, Macomb, (11) $11,922; Mautz & Oren, Effingham, (12) $25,687; Hedges Constr. Co., 111 West Washington St., Chicago, (15) $13,871; H. J. C. Beckemeyer, Carlyle, (17) $18,499; G. C. Fairclo, Milford, (19) $14,272; Illinois Steel Bridge Co., Jacksonville, (20) $8,150 (23) $4,658; F. Lorenz, Oak Glen, (21) $9,101; D. Alford, Cuba, (22) $21,392. Noted Aug. 31.

Tex., New Braunfels—Concrete arch bridge across Comal River, five 70 ft. concrete arch spans and two 30 ft. girder spans, to Miller-Fifield Constr. Co., Waterloo, Ia., $38,280. Noted Aug. 17.

Calif., Bagby—Supervs. Mariposa Co., Mariposa, 180 ft. steel span with concrete piers and abutments, concrete approach and floor, to Security Bridge Co., Ogden, Utah, (street address not available) $23,500. Noted Sept. 14 under Mariposa.

Calif., Glenburn—Shasta Co., Redding, constructing rein.-con. bridge over Fall River, near here, to F. H. Nielson, Orland, $33,656.

Dams

CONTRACTS AWARDED

N. Y., Beacon—City Council, 525 Main St., repairs to Dam 537, South Mountain, Mt. Beacon Reservoir, to M. R. Spino, Beacon, $34,996. Noted Aug. 24.

Railways

BIDS RECEIVED

New York—Transit Comn., 49 Lafayette St., New York, opened bids Sept. 15, installing tracks for 239th St. Yard of White Plains Rapid Transit R.R. Co., etc., from M. Del Balso, 660 East 221st St., New York, $211,229; Frederick Snare Corp., 8 West 40th St., New York, $213,522; B. T. and J. J. Mack, 200 Bway., New York, $242,000. Noted Sept. 7.

CONTRACT AWARDED

Pennsylvania—Slaight Lumber Co., Morris, 12 mi. railroad line from Morris into woods, to D. Kitchen, Wellsboro.

Excavation, Drainage, Irrigation

PROPOSED WORK

Idaho, Hauser (R. D. Post Falls)—O. Weile, engr., Peyton Bldg., Spokane, preparing plans and takes bids in spring, extending irrigation system, here, 15,500 ft. 14-30 in. c.i. pipe, for Spokane Farms Co., $75,000.

Mont., Hamilton—Ravalli Irrigation Dist. having plans prepared and takes bids in spring, replacing 4½ mi. flumes 8 x 16 ft. on medium high trestle, about 125,000 ft., also relining canals. $750,000. Jacobs & Powell, Seattle, Wash., engrs.

Wash., Locke—Comrs. Locke Drainage Dist., Pend Oreille Co., taking bids levee, concrete culvert, pump, engine, housing and tile, steam shovel and scraper work, 80,000 cu.yd. common and select dry earth excav. $45,000-$50,000. Engineer not selected.

Wash., Okanogan—State Dept. of Conservation plans developing 8,000 acres of land, here. $600,000.

Wash., Spokane—Spokane Valley Irrigation Dist. will vote on $500,000 bonds Sept. 27, and takes bids in February, irrigation system, incl. 5 mi. 8-60 in. rein.-con. pipe and 5 mi. 24-66 in. wood pipe, 5 x 8 ft. to 5 x 12 ft. wooden flumes, 60,000 cu.yd. earth excav. $500,000. R. K. Tiffany, Old Natl. Bank Bldg., engr.

Calif., Fresno—Centerville D. D., c/o engineers, had plans prepared irrigation system, 138,839 cu.yd. excav., etc. C. P. Jensen, Cory Bldg., and R. C. Phillips, Sanger, engrs.

BIDS DESIRED

S. C., Kingstree—Oct. 1, by Comrs. Williamsburg, Florence and Clarendon Counties, at office of Kelley & Hinds, Kingstree, 1,250,000 cu. yd. earth excav. P. G. Gorudin, Kingstree, engr.

Fla., Ft. Lauderdale—Oct. 3, by Bd. Comrs. Broward Co., constructing inlet from New River Sound to Atlantic Ocean, near here. H. G. Wheeler, chn. F. A. Bryan, clk.; adv. this issue. Noted Aug. 31.

Illinois—Oct. 7, by Drainage Comrs. Union Dist. 1, Atkinson and Alba Twps., Henry Co., for cleaning out and deepening Bentley Ditch, Cunnea Branch, Irvin Lateral and Lievens Branch, etc.; adv. this issue.

Minn., Minneapolis—Oct. 27, by Bd. Park Comrs., City Hall, dredging Lake Calhoun and filling lowlands and boulevards, 85,500 cu.yd. sand shore dykes, 264,000 cu.yd. sand fill, 312,200 cu.yd. mud fill. $65,000. J. A. Ridgway, secy. A. C. Godward, engr.

Minn., Slayton—Sept. 26, by Murray Co., repairing Co. Ditch 19, 167,310 lin.ft. 6-36 in. tile (4,147 ton), 35,513 cu.yd. excav., 1 concrete bulkhead, 1 concrete bridge, $87,-254; Judicial Ditch 26, 83,428 cu.yd. excav., 82,444 lin.ft. 6-36 in. tile (1,891 ton), 1 bulkhead, bridge, $63,166. J. W. Woolstencroft, Slayton, engr.

Kan., Edwardsville—J. D. Waters, Bonner Springs, taking bids for removal of 100,000 yd. dirt from bottom of lake, here, for Forest Club, Bonner Springs.

SEWERS

Ore., Eagle Point—Sept. 28, at office of Bd. Directors of Eagle Point Irrigation Dist., constructing main supply canal, with all equipment, structures, etc., 180,000 cu. yd. excav., etc. W. E. Hammel, secy. Noted July 13.

Calif., Merced—Oct. 3, by Dirs. Merced Irrigation Dist., furnishing 2 vertical type Booster plants to handle 30 sec. ft. water against head of 24 ft. R. C. Starr, Merced, ch. engr.

Calif., Paradise—Oct. 3, by G. C. Billie, secy. Paradise Irrigation Dist., furnishing and delivering 7,000 lin.ft. 34 in. and 6,000 lin.ft. wood stave pipe, also large quantity of 3-7 in. pipe for extension to present main distributing lines.

BIDS RECEIVED

N. Y., New York—J. H. Delaney, comr. Docks, Pier "A" foot of Battery Pl., North River, opened bids Sept. 18 dredging Chelsea Piers, Manhattan Boro, from Columbia Dredging Co., 30 Church St., $22,546; New Jersey Shipbuilding & Dredging Co., 50 Broad St., $26,438; R. Rogers, $26,438; Morris & Cummings Dredging Co., 17 State St., $29,354. Noted Sept. 14.

CONTRACTS AWARDED

R. I., Providence—Bd. Contract and Supply, excavating and filling at Municipal Wharf, Fields Point, (hydraulic excav.), 70,000-80,000 cu.yd. earth excav., to Briggs Eng. & Constr. Co., 710 Union Trust Bldg., $0.24 per cu.yd. Noted Aug. 31.

Ill., Taylorville—Comrs. North Fork Outlet D. D., Court House, dredging 16 mi. Sangamon River from point south of Niantic to point below Robey, 1,625,000 ft. earth and 3,300 ft. rock and shale excav., etc., to McWilliams Dredging Co., 332 South Michigan Ave., Chicago, $140,000. Noted July 27.

Colo., Colorado Springs—Beaver Park Land & Water Co., 301 Mining Exch. Bldg., Brush Hollow Reservoir, near Penrose, 308,000 yd. earth embankment with rip rap face, to A. Allen & Mishou Constr. Co., Pueblo, (street address not available), $108,845. Noted Aug. 17.

Streets and Roads

PROPOSED WORK

Mass., Marlboro—Plans reconstructing Lincoln St. from Broad to Mechanic Sts., and Newton St. from Main to Garfield Sts., asphalt. $35,500. Dept. Pub. Wks., engrs.

Conn., Wallingford—Plans paving South Cherry, Franklin and South Orchard Sts. $45,900. Private plans.

N. Y., Rochester—Plans paving Schlitzer St. and Dalton alley, concrete, $3,050; Folsom St. $19,200, Clinton Ave. N. between Ridge and Navarre Rds. $30,500, Aab St. $17,300, Turpin St., $31,100, Arbutus St. $18,600, all foregoing warrenite bitulithic; Marlow St. $10,200, Bradburn St. $4,780, Emanon St. $7,700, Weyrech St. $7,000, Lorraine Pl. $4,600, resurfacing Bronson Ave. $18,000, all foregoing asphalt; cement walks, sewers and paving Joseph Ave. between Herman St. and Clifford Ave., 40 ft., $85,000; grading and sewer in Highland Parkway $8,600. C. A. Poole, city engr.

N. J., New Brunswick—Middlesex Co. soon takes bids paving 1 mi. section of Matawan-Old Bridge Rd., concrete. A. B. Fox, Perth Amboy, engr. Noted Aug. 24 under "New Jersey."

Streets and Roads (Continued)

Pa., Bradford—Plans paving Ave. B, Brennan, Clark, North and Elm Sts, brick, asphalt or concrete. $25,000. C. Charlton, city clk. Engineer not announced.

Pa., Scranton—Plans paving 40 streets. Cost to exceed $100,000. W. P. Huester, city clk. Engineer not announced.

W. Va., Spencer—Geary Dist., Roane Co., voted $120,000 bonds grading 12 mi. road. G. H. Hill, Spencer, engr.

N. C., Greensboro—Guilford Co. plans grading and waterbound macadam paving 2½ mi. road from city limits of Greensboro to Buffalo Creek Bridge, and resurfacing (probably asphalt treatment), 3 mi. old macadam road, $32,000; grading and warrenite paving on concrete base 2 mi. road from County home along Bessemer Rd. to Summit Ave., $50,000. W. C. Boren, chn. Co. Hy. Comn.

Ga., Thomasville—Had plans prepared paving 5 blocks Broad St. from Tosco Hotel to Calhoun St., 50 ft., asphaltic concrete, also curb and sidewalks.

Fla., Monticello—Plans election to vote on $75,000 bonds paving 3 mi. various streets. J. L. Smith, Monticello, engr.

Fla., Wauchula—Hardee Co. having plans prepared paving 90 mi. roads, 2½ in. asphalt on 6 in. rock. H. S. Jaudon Eng. Co., Elberton, Ga., engrs.

Ohio—Dept. Highways and Pub. Wks., Columbus, cancelled bids which were to be opened Sept. 15, grading and paving 3.551 mi. Sect. "P" Columbus-Sandusky Rd., Huron Co., waterbound macadam, $39,154. Noted Sept. 7.

Ohio—Dept. Highways and Pub. Wks., Columbus, rejected bids opened Sept. 1, grading, bridging and paving 3.355 mi. Sect. "O" Wooster-Mansfield Rd., Wayne Co., and 1.089 mi. Sect. "B" Cleveland-Buffalo Rd., Lake Co., both brick. Noted Sept. 7.

O., Columbus—W. H. Duffy, dir. Pub. Serv., plans grading, curbing and paving 1,174 ft. Chestnut St. from High to 4th Sts., 52 ft., asphalt $26,090, stone $33,435; 1,096 ft. 5th Ave. from Perry St. to alley west of Parker St., 60 ft., brick $120,440, asphalt $108,193; 264 ft. alley north of Eastwood Ave. from Taylor to Parkwood Aves., 20 ft., concrete $1,566, brick $2,080. R. H. Simpson, City Hall, engr.

O., East Liverpool—Plans curbing, sewers, water mains and repaving West 5th St., tarvia, asphalt, concrete, rein.-con., asphaltic concrete or bitulithic. $25,000. G. A. Shone, city clk.

Michigan—State Hy. Dept. Lansing, soon takes bids grading 5½ mi. State Trunk Line Rd. 18-13, Midland Co. F. F. Rogers, state highway comr.

Mich., Detroit—Had plans prepared grading and paving with ½ in. sheet asphalt on 8 in. concrete, Broadstreet Ave. from Joy to Collingwood Aves. $44,440, Lawton Ave. from Carter to Gladstone Aves. $3,890, also paving alleys with one course concrete, east east and west alley between Lansing, McKinstry, Dix and Uthes Aves. $2,340, alley between Parker, Maxwell, Waterloo and Charlevoix Aves. $5,100, alley between Jos. Campau, Mitchell, Hale and Mack Aves. $1,470. J. W. Reid, city engr.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, rejected bids paving 0.61 mi. Route 6, Sect. 28, Whiteside Co., 1.66 mi. Route 6, Sect. 29, Whiteside Co., 3.64 mi. Project 38, Sect. 46, Schuyler Co. No bids were received on 5.28 mi. Route 27, Sect. 36, Tazewell Co. Noted Aug. 31.

Wis., Madison—Making plans paving between car tracks on Johnson and University Sts., rein.-con. $25,000. E. E. Parker, City Hall, engr.

Wis., New Richmond—Plans paving, curbing and guttering 1.5 mi. Main St., 25 ft., vitr. brick, asphalt or concrete. $50,000. W. T. Doar, clk. Engineer not selected.

Wis., Sheboygan—Had plans prepared paving, curbing and guttering North Water and 13th Sts., 25-30 ft., one course concrete curb and gutter. $25,000. C. N. Boley, City Hall, engr.

Missouri—State Hy. Dept. at div. office Buffalo, rejected bids opened Aug. 14, 12.311 mi. road, 24 ft., State Aid Project 20.183, Dallas Co. Noted Aug. 3.

Wash., Seattle—Rejected bids opened Sept. 1, paving Terry Ave. et al., engrs. est. $120,402; Atlantic St. et al., engrs. est. $34,890. Noted Sept. 7.

Calif., Modesto—Had plans prepared surfacing following streets with 1½ in. warrenite, 108,804 sq.ft. 105th St. from L to K Sts., 11th and 12th Sts. from K to J Sts., and 12th St. from J to H Sts.; 36,751 sq.ft. surfacing and 280 sq.ft. guttering on H St. from 9th to 11th Sts.; 68,441 sq.ft. surfacing and 280 sq.ft. guttering on I St. from 9th to 12th Sts.; 56,400 sq.ft. surfacing and 480 sq.ft. gutetring on K St. from 9th to 13th Sts. G. H. Freitas, city engr.

Calif., Oakland—Had plans prepared improving 14th St. between Poplar and Peralta Sts., 61,294 sq.ft. grading, 229 lin.ft. concrete curb with steel guard, 2,217 lin.ft. concrete curb without steel guard, 2,632 sq. ft. concrete gutter, 59,292 sq.ft. asphaltic concrete pavement, etc. W. W. Harmon, city engr.

Ont., Hamilton—Plans paving 40,000 sq. yd. King St. from Sherman to Delta Aves., asphalt on concrete. $131,000. E. R. Gray, city engr.

Ont., Hamilton—Plans 12,000 sq.yd. asphalt pavements on concrete, with concrete curbs and gutters, on Dundurn St. from King to York Sts. $39,000, Fraser Ave. from Eu nboro to Campbell Aves. $3,000, Graham Ave. from Roxboro Ave. to pipe line, $5,000. E. R. Gray, city engr.

Ont., Hamilton—Plans 10,000 sq.yd. asphalt pavements on Emerald St. from King to Stinson Sts., Ottawa St. from Beach Rd. to Burlington Ave., Balmoral Ave. and Ottawa St. from Main to King Sts., Mary and Catharine Sts. from Cannon St. to Barton Rd., Queen St. from King to York Sts. $44,000. E. R. Gray, city engr.

Ont., Leamington—Having plans prepared concrete pavement on Erie St. S. $35,000. J. J. Newman, Davis Blk., Windsor, engr.

B. C., Nelson—Takes bids in spring improving streets in business section, concrete, $100,000; grading and paving 9 mi. of Inland-International Highway, waterbound macadam, $100,000. C. F. McHardy, mayor.

BIDS DESIRED

N. Y., Brooklyn—Sept. 25, by E. Riegelmann, boro pres., Boro Hall, grading East 37th St., repaving Navy, Nassau and Wallabout St., granite, 23rd St., asphalt block, curbing and flagging 82nd St.

N. Y., Long Island City—Sept. 27, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., repaving outside of railroad franchise area of Jackson Ave. from Junction Ave. to 51st St., 2nd Ward, sheet asphalt on 6 in. concrete and within railroad franchise area improved granite block and sheet asphalt on 6 in. concrete; grading sidewalk space and laying sidewalks where necessary on southerly side of Liberty Ave. from Lefferts Ave. to 120th St., 4th Ward; grading, curbing and laying sidewalks where necessary in 95th St. from Liberty to 107th Aves., curbing and laying sidewalks where necessary on southerly side of Liberty Ave. from 94th to 95th Sts.

N. Y., New York—Sept. 25, by J. Miller, pres. Manhattan Boro, Municipal Bldg., widening and repaving widened portion roadway of 25th St. from Bway. to 7th Ave., roadway of 26th St. from Bway. to 7th Ave., roadway of 30th St. from 6th to 7th Aves., all foregoing sheet asphalt on concrete, roadway of 57th St. from 7th Ave. to Bway., sheet asphalt and wood block on concrete, 20th St. from 6th to 7th Aves., granite block on concrete.

N. Y., New York—Sept. 26, by H. Bruckner, pres. Bronx Boro, paving West 190th St., etc., sheet asphalt; relief sewer in Webster Ave. between Burnside Ave. and East 194th St.

N. Y., Syracuse—Oct. 2, by Bd. Contract and Supply, paving 4,960 sq.yd. Jasper St., 25 ft., $29,460; 5,790 sq.yd. Highland St. from Highland Ave. to Park St., 27 ft., $34,860; 5,400 sq.yd. Teall Ave. from James to Peck Sts., 34 ft., $30,120; 6,130 sq.yd. Shuart Ave. from Sedgwick to Teall Aves., 25 ft., $38,770; 11,550 sq.yd. Grand Ave. from Delaware St. to city line, 25 ft., $60,930; 9,580 sq.yd. Cooleridge Ave. from Wilbur to Whittier Sts., 25 ft., $56,080; 3,830 sq. yd. Merriman Ave. from Messena to Geddes Aves., 25 ft., $23,210; 6,280 sq.yd. Kellogg St. from Slocum to Delaware Sts., 25 ft., $43,210; 4,090 sq.yd. Castle-St. from State to Renwick Sts., 30 ft., $24,400; 10,840 sq. yd. Crouse Ave. from Fayette St. to University Pl., 32 ft., $60,640; 7,880 sq.yd. Walnut Ave. from Harrison St. to University Pl., 34 ft., $55,190. Bids will be received on asphalt, brick, bituminous concrete and Portland cement concrete, stone and concrete curbs. N. L. Pitts, City Hall, engr.

Pa., Ebensburg—Sept. 29, by Supervs. Jackson Twp., c/o H. Jones, controller Cambria Co., Court House, Ebensburg, 5,800 lin. ft. vitr. brick paving and 5,800 lin.ft. concrete curbing on Jackson Rd., near Summerhill. A. B. Curry, 909 Johnstown Trust Co., Johnstown, engr.

Pa., Phila.—Sept. 28, grading, asphalt and vitr. brick paving on various streets, repairing bridges, and furnishing motor driven street flushers.

Del., Wilmington—Sept. 26, by C. E. Grubb, engr., County Bldg., grading and constructing 2 mi. road from Fairview School to Pleasant Hill, 16 ft., asphalt penetration on water bound macadam.

W. Va., Pineville—Comrs. Wyoming Co. receiving bids grading and gravel surfacing 2½ mi. Clear Fork Rd., 20,000 cu.yd. excav., 6,200 cu.yd. borrow, 28 cu.yd. concrete. $25,000. H. J. Spelman, Robson-Pritchard Bldg., Huntington, engr.

S. C., Greenville—Oct. 4, by H. P. Dill, superv. Greenville Co., grading and surfacing 4.03 mi. sections Dunhams Bridge Rd., 41,000 cu.yd. common and 1,704 cu.yd. rock excav., 12,628 cu.yd. topsoil surfacing, 938 lin.ft. rein.-con. pipe, 33,196 lb. reinforcing, etc.; 1.99 mi. sections Kays Bridge Rd., 16,819 cu.yd. common and 667 cu.yd. rock excav., 6,249 cu.yd. topsoil surfacing, 787 lin.ft. rein.-con. pipe, 3,490 lb. reinforcing, etc.

Fla., Ft. Myers—Oct. 10, by Bd. Comrs. Lee Co., clearing, grading and hardsurfacing 6 mi. road in Road and Bridge Dist. 4, on Capitva Island. $25,000. Engineer not announced. Noted July 27.

La., Alexandria—Oct. 2, by Comr. of Council, paving 7th St., vertical fibre brick, incl. 15,300 sq.yd. brick on 5 in. concrete, 43,500 lb. reinforcing in A and B drains, 492 cu.yd. concrete in A and B drains, 94,400 lb. c.i. in grates, etc. V. M. Ake, secy.

Ohio—Sept. 29, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 1.985 mi. Sect. "K-2" Cincinnati-Chillicothe Rd., Clermont Co., $54,118 also 1.22 mi. Sect. "S-1" Newark-New Lexington Rd., Perry Co., $35,318, both bituminous macadam, tar or asphalt; rein.-con. girder bridge on Sect. "L-2" Columbus-Portsmouth Rd., Pike Co., $3,889. Noted Sept. 7.

O., Cleveland—Sept. 30, by Bd. Comrs. Cuyahoga Co., paving Hilliard Rd. vitr. brick on concrete, $120,176; Chagrin River Rd., $73,260; Noble Rd., vitr. brick, $274,075. F. Lander, Court House, engr.

Ind., Vevay—Oct. 2, by Comrs. Switzerland Co., grading and paving with stone, 13,810 ft. highway, in Cotton Twp., to be known as Harry Scudder et al. Rd. W. A. Reeves, aud.

Michigan—Sept. 27, by State Hy. Dept., Lansing, grading and surfacing 12.366 mi. Federal Aid Project 80, Sect. E, Machinac Co., 33,827 cu.yd. excav., 130,470 sq.yd. gravel; 1.261 mi. Federal Aid Project 91, Berrien Co., 8,453 cu.yd. excav., 13,323 sq. yd. asphalt, concrete or bituminous concrete. F. F. Rogers, state highway comr.

Michigan—Sept. 28, by State Hy. Dept., Lansing, grading and surfacing 1.386 mi. State Trunk Line Rd. 35-9, Gladstone Co., 2,088 cu.yd. excav., 14,121 sq.yd. asphalt, concrete or bituminous concrete. F. F. Rogers, state highway comr.

Michigan—Sept. 29, by State Hy. Dept., Lansing, grading 8.612 mi. Federal Aid Project 87, Wayne Co., 69,177 cu.yd. excav. F. F. Rogers, state highway comr.

Michigan—Oct. 1, by State Hy. Dept., Lansing, grading and gravel surfacing 7.98 mi. Assessment Dist. 384, Eaton and Ionia Counties. $45,000. F. F. Roger, state highway comr.

Michigan—Oct. 4, by State Hy. Dept., Lansing, grading and surfacing 10.514 mi. Assessment Dist. Rd. 444, Lapeer and Genesee Counties, 63,689 cu.yd. excav., 74,016 sq.yd. gravel. F. F. Rogers, state highway comr.

Ill., Chicago—Sept. 26 by Bd. Local Impvts., 207 City Hall, paving various streets. $500,000. C. D. Hill, ch. engr.

Ill., Chicago—Sept. 29 by Bd. Local Impvts., 207 City Hall, paving various streets. $500,000. C. D. Hill, ch. engr.

N. D., Bismarck—Oct. 4, by Burleigh Co., 2 mi. Federal Aid Project 174, incl. 35,081 cu.yd. excav., 3,900 cu.yd. gravel surface.

Missouri—Sept. 28, by State Hy. Dept., Jefferson City, improving 110 mi. various roads in 21 counties. $2,000,000. B. H. Piepmeier, state highway engr.

Colorado—Sept. 26, by State Hy. Dept., Denver, concrete paving 1.003 mi. road extending eastward on the U. P. Highway from Aurora City limits, Federal Aid 225, Arapahoe Co., 18 ft., alternate bids on bituminous pavement, 40 cu.yd. concrete, 1,900 cu.yd. common, 300 cu.yd. borrow fill and 5,100 sta.yd. overhaul excav., 10,595 sq.yd. one course plain cement concrete pavement, 750 cu.yd. gravel shoulders, etc., $36,000; 1.519 mi. road beginning at

Streets and Roads (Continued)

Broomfield and extending northerly toward Lafayette, Federal Aid 222-B. Adams Co., 18 ft., 153 cu.yd. concrete, 15,600 cu.yd. common, 1,500 cu.yd. rock and 5,700 cu.yd. borrow fill excav., 15,600 sta.yd. overhaul, 16,044 sq.yd. one course plain cement concrete pavement, 9,490 lb. reinforcing, etc., $72,000. L. D. Blauvelt, State Office Bldg., Denver, engr.

California—Oct. 9, by State Hy. Comn., Sacramento, gravel surfacing 10.7 mi. highway between Ione and Jackson, Amador Co.; asphaltic concrete surfacing 0.9 mi. highway through Atwater and Livingston, Merced Co. A. B. Fletcher, state highway engr.

Quebec — Oct. 3, by J. L. Boulanger, deputy minister of highways, Quebec, building 7,585 ft. Aylmer-Chaplan Highway, in Aylmer, oiled macadam. M. Nectkar, Dept. Rds., Quebec, engr.

Que., Montreal—Executive Com. taking bids paving various streets, $228,244, sidewalks, $41,339. H. A. Tetreault, dir. pub. wks.

Ontario—Oct. 2, by W. A. McLean, deputy minister of highways, Toronto, grading on Provincial Highway, Danforth Ave. from Toronto city limits to Kingston Rd., Contr. 778. $25,000. G. Hogarth, Parliament Bldgs., Toronto, ch. engr.

BIDS RECEIVED

Conn., Stratford—R. H. Hunter, town mgr., opened bids Sept. 8, paving ½ mi. West Broad St. between Barnum and Linden Aves., Telford type asphalt, from Natl. Constr. Co., 721 Main St., Hartford, $19,965; Leverty & Hurley, 1374 Wood Ave., Bridgeport, $28,800. Noted Aug. 31.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids Sept. 13, repaving (1) Union St., (2) 16th Ave., (3) 15th St., (4) 95th St., from Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., (1) $32,702, (2) $15,677, (3) $6,292, (4) $9,912; Cranford Co., 52 9th St., (1) $33,547, (2) $14,375, (3) $6,473, (4) $8,951; Boro Asphalt Co., 1301 Metropolitan Ave., (1) $36,178, (2) $15,137, (3) $6,770, (4) $9,473. Noted Sept. 7.

N. Y., New York — H. Bruckner, pres. Bronx Boro, opened bids Sept. 12, paving (1) West 230th St., (2) Hornaday Pl., grading, curbing and laying sidewalks, etc., on (3) Whitlock Ave., from Southern Blvd. to bridge over Port Morris branch of New York Central Central R.R., grading, etc., (4) Seymour Ave., (5) Whitlock Ave. from East 149th St. to Leggett Ave., from Asphalt Constr. Co., 2197 Madison Ave., (1) $11,051, (2) $6,021, (3) $9,530; Brusstar Constr. Co., Harlem River and 150th St., (1) $12,531, (2) $6,521; C. T. Beckwith, Inc., 2875 Bway., (1) $12,833, (2) $6,003, (3) $13,960; Casper Helbock, 633 Wales Ave., (4) $19,866; P. J. Kearns Contg. Co., 2306 Creston Ave., (4) $20,846, (5) $21,529; Spadero Contg. Co., 827 East 217th St., (4) $25,670; M. Del Balso, 660 East 221st St., (5) $19,344; Fordham Contg. Co., (5) $21,620. Noted Sept. 7.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, opened bids Sept. 15, repaving roadway of Southfield Blvd., etc., from Brooklyn & Manhattan Contg. Corp., 26 Court St., Brooklyn, $178,580; C. Vanderbilt, 24 Elizabeth St., West New Brighton, $178,990; J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $180,397. Noted Sept. 7.

N. Y., Syracuse — Bd. Contr. & Supply, opened bids Sept. 13, paving (1) East Adams St. (2) Renwick Ave., both asphalt from J. H. Gallup, Union Bldg., (1) $25,236 (2) $53,470; F. J. Baker, Bastable Bldg., (1) $25,245 (2) $50,440; Dale Eng. Co., Mann Bldg., Utica, (1) $25,729 (2) $51,421.

N. J., Somerville—Somerset Co. Court House, constructing 67,749 sq.yd. State Highway Route 16, Sect. 4, from Pluckamin to Somerville, concrete, from Peconco Eng. Contg. Co., 1170 Bway., New York City, $329,740; Acchione & Canuso Paving Co., 804 South 12th St., Phila., $342,079; Pub. Serv. Production Co., 80 Park Pl., Newark, $344,212. Noted Aug. 17.

Pa., Ebensburg—Cambria Co. Controller, opened bids Sept. 8, paving 16,136 ft. Wilmore Plank Rd., vitr. brick on concrete, from G. T. Morgan, Johnstown, $189,259; Bell-Bockel Co. Inc., 543 Vine St., Johnstown, $206,450.

Pa., Patton—G. Prindible, pres. Boro. Council, reconstructing 3,200 lin.ft. Beach Ave., 20 ft., vitr. brick on concrete with raised stone curb, from L. R. Mathieu & Sons, Union Ave. and 19th St., Altoona, $40,833; Bell-Bockel Co., 543 Vine St., Johnstown, $41,834. Noted Aug. 31 under "Ebensburg."

Ohio—Dept. Highways and Pub. Wks., Columbus, opened bids Sept. 15, grading roads in following counties: Stark Co., Sect. "D-2" and "E" Alliance-Minerva Rd., 3.96 mi., from F. J. Mann & Sons, Ashland, $27,852; Keystone Constr. Co., Columbus, (street address not available), $29,026; A. F. Wendling Co., Massillon, $32,067. Tuscarawas Co., Sect. "A" Canton-Canal Dover Rd., 3 mi., from C. G. Fuller, Canal Dover, $18,237; Kavanaugh-De Niro Co., Youngstown, (street address not available), $18,418; J. I. Geiger, Valley Park, R. R. 9, Dayton, $18,418. Tuscarawas Co., Sect. "B" Canton-Canal Dover Rd., 2.299 mi., from C. G. Fuller, Canal Dover, $17,831; Keystone Constr. Co., Columbus, (street addres not available), $18,497; Culbertson & Casper, Canton, (street address not available), $18,650. Tuscarawas Co., Sect. "E" Canton-Canal Dover Rd., 2,093 mi., from F. J. Mann & Sons, Ashland, $19,783; D. Roach, Defiance, $22,418; Kavanaugh-DeNiro Co., Youngstown, (street address not available), $22,909. Williams Co., Sect. "C" Stryker-Evansport Rd., 1.187 mi., from E. E. Manley, Mt. Pelier, $14,879; J. A. Elder, Bryan, $15,057; C. M. Gray, Waterville, $15,690. Williams Co., Sect. "D" Strkyer-Evansport Rd., 2.58 mi., from Carey, Archbold, $4,065; D. G. Watson, Malinta, $4,948; Kelly Constr. Co., Bryan, $5,196. Jackson Co., Sect. "K" Jackson-Pomeroy Rd., bridge over Sugar Creek, from P. C. Adams, Jackson, $4,038. Noted Sept. 7.

O., Cleveland — Cuyahoga Co., Court House, paving Detroit Rd. 4, 3,465 lin.ft. stone curb, 8,800 lin.ft. 4 in. vitr. pipe gutter, 6,400 cu.yd. earth excav., 13,850 sq. yd. granite block, 2,400 cu.yd. concrete base, from Enterprise Paving & Constr. Co., 8444 Bway., $110,227; Roehl Bros., West 25th St. and Clark Ave., $113,767; River Constr. Co., Schofield Bldg., $117,994. Engrs. est. $132,178.

O., Cleveland—Opened bids Sept. 1 paving driveways in Highland Park Cemetery, concrete, from Complete Constr. Co., 3129 Scranton Rd., $46,228; Garland Bros., Pavers Exch., Society for Savings Bldg., $47,000. Noted Aug. 24.

O., Cleveland—Paving (1) Superior Ave. from Public Sq. to West 6th St., (2) Linn Dr., (3) Amesbury Ave. (1-3 inclusive), involve 1,170 cu.yd. earth excav., 2,500 sq.ft. vitr. brick, 24,000 sq.ft. relaid granite block, 4,600 sq.yd. asphalt and 970 sq.ft. concrete, (4) Baltic Rd., 3,600 cu.yd. earth excav., 82,400 sq.ft. vitr. brick on concrete, 3,600 sq.yd. asphalt, from Cleveland Trinidad Paving Co., The Arcade, (1) $24,997; Highway Constr. Co., Elyria, (1) $25,676; Rieley Bros., The Arcade, (2) $4,548, (3) $1,176, (4) $48,631; Garland Bros., Pavers Exch., Society for Savings Bldg., (2) $5,018; Freshwater Constr. Co., Natl. Bldg., (4) $45,591.

Missouri—State Hy. Dept. at div. office Albany, opened bids July 18, 3.973 mi. road from King City to Stanberry, 24 ft., Federal Aid Project 54, Gentry Co., 5,000 cu.yd. earth excav., etc. (a) inverted penetration macadam (b) penetration macadam (c) 1 course concrete (d) asphaltic concrete, from E. L. Meek & Co., Kansas City, (street address not available) (a) $87,829 (b) $82,691 (c) $114,001 (d) $90,009; J. O. Patterson & Co., 311 Ridge Bldg., Kansas City, (a) $92,313 (b) $92,869; Koss Constr. Co., 2818 5th Ave., Des Moines, Ia., (c) $111,181; Dalton Constr. Co., Junction City, Kan., (c) $113,074. Noted July 6.

Wash., Seattle—Paving 20th Ave. et al. (1) 4,900 cu.yd. subgrade (2) 1,560 ft. integral concrete curb (3) 1,450 ft. 5 in. asphaltic concrete curb (4) 10,875 ft. 5 in. concrete curb (5) 3,000 sq.yd. 5 in. concrete paving (6) 16,450 sq.yd. 6 in. concrete pav-

ROAD WORK—MAINE

Bids were opened by State Highway Comn., Augusta, Aug. 25, for constructing State Highway "B," Bridgton Project No. 58, from (A) Arborio Road Constr. Co., Hartford; (B) J. Arborio, 82 Church St., New Haven; (C) A. D. Bridge's Sons, Inc., Hazardville, Conn. The unit bids were as follows:

	A	B	C
10,000 cu.yd. earth excavation	$1.10	$1.25	$1.25
920 cu.yd. rock excavation	2.50	3.00	3.00
650 cu.yd. borrow	1.10	1.25	1.25
284 cu.yd. stone fill	2.00	3.00	2.00
1,000 cu.yd. gravel base	2.75	2.00	2.75
1,000 cu.yd. stone base, gravel finish	3.25	3.25	2.50
250 cu.yd. gravel sub-base	2.50	2.50	3.00
20.8 cu.yd. class "A" concrete	30.00	25.00	30.00
59.3 cu.yd. class "B" concrete	25.00	20.00	20.00
92 lin.ft. 12-in. c.m. pipe	1.00	1.00	1.00
174 lin.ft. 16-in. c.i. pipe	1.00	1.50	1.50
66 lin.ft. 18-in. c.i. pipe	1.25	2.00	1.75
120 lin.ft. 24-in. c.i. pipe	1.50	2.50	2.50
514 sq.yd. cobble gutter	1.25	1.00	1.00
200 cu.yd. gravel road	2.75	3.00	3.00
27,900 sq.yd. broken stone base course	.54	.50	.65
1,938 cu.yd. bituminous macadam surface course	5.50	7.00	7.70
62,775 gal. bituminous mat. hot (tank cars)	.08	.06	.11
*62,775 gal. bituminous mat. hot (bbls.)	.09	.04	.07
1,080 lin.ft. wood guard rail	.55	.75	.50
Extended totals less item marked*	$56,377	$58,497	$66,836

ROAD WORK—KENTUCKY

Bids were opened by State Highway Comn., Frankfort, Aug. 15, for constructing 9.3 mi. Salyersville-Paintsville Rd., Federal Aid Project No. 76, State Project No. 34, Sect. A, Johnson Co., from (A) Dempster Constr. Co., Knoxville, (awarded contract); (B) R. G. Hill Co., Knoxville, Tenn.; (C) Hunt-Forbes Constr. Co., Ashland. The unit bids were as follows:

	A	B	C
77,313 cu.yd. earth excavation	$0.50	$0.60	$0.67
39,510 cu.yd. solid rock excavation	1.05	1.20	1.33
22,181 cu.yd. borrow excavation	.45	.60	.67
1,534 cu.yd. excavation, channel change	.50	.60	.67
1,052 cu.yd. excavation, solid rock	1.10	1.25	1.33
344.95 cu.yd. class A concrete	25.00	33.00	35.00
1,081.13 cu.yd. cement rubble masonry	11.00	10.00	15.00
431.38 cu.yd. class A concrete, bridges	26.00	30.00	35.00
12.97 cu.yd. class B concrete	24.00	28.00	32.00
15.01 cu.yd. class D concrete	40.00	48.00	65.00
1,043 cu.yd. cement rubble masonry, bridges	10.00	9.00	15.00
119,037 lb. reinforcement	.07	.07	.10
400 cu.yd. foundation excavation, dry earth	1.10	.80	1.50
50 cu.yd. foundation excavation, wet earth	1.50	3.00	2.50
12,367 lin.ft. standard cable guard rail	.50	.60	.86
303 cu.yd. hand placed stone fill	1.50	2.25	4.50
25 cu.yd. rip rap	1.50	2.25	4.00
21 removing trees, stumps	2.00	4.00	5.00
5.2 acres clearing and grubbing	40.00	70.00	70.00
1,328 lin.ft. 18 in. standard vitrified pipe	2.15	2.25	3.95
264 lin.ft. 24 in. standard vitrified pipe	2.50	3.50	5.60
828 lin.ft. 18 in. D. S. vitrified pipe	2.50	3.00	4.20
646 lin.ft. 24 in. D. S. vitrified pipe	3.40	3.75	6.20
146.92 cu.yd. 1:3:6 encasing concrete	18.00	27.00	30.00
Extended totals, vitrified pipe	$161,418	$184,926	$225,629
Extended totals, cast iron pipe	$165,160	$185,915	$229,747
Extended totals, reinforced concrete pipe	*$161,139	.....	.....

* Awarded contract.

Streets and Roads (Continued)

ing, from D. H. Traphagen, Walker Bldg., (1) $0.70 (2) $0.30 (3) $0.75 (4) $0.35 (5) $1.60 (6) $1.73, total $54,560; Coluccio & Erickson, 1642 Lane St., (1) $0.68 (2) $0.38 (3) $0.70 (4) $0.40 (5) $1.45 (6) $1.60, total $55,166; J. L. Smith, Pioneer Bldg., (1) $0.70 (2) $0.45 (3) $0.65 (4) 0.40 (5) $1.55 (6) $1.65, total $55,391. Paving 11th Ave. N., from Coluccio & Erickson, 1642 Lane St., 7,300 sq.yd. 6 in. concrete $1.85, 665 ft. asphaltic concrete curbing $0.75, 4,075 lin.ft. concrete curbing $0.45, 1,800 cu.yd. subgrade $0.70, total $27,434.

Calif., Fresno—Improving (1) Butler Ave., (2) Aris Ave. between Belmont and Hedges Sts., (a) 322,910 ft. grading, (b) 300,200 ft. asphaltic pavement, (c) 21,786 ft. concrete gutter, (d) 11,958 ft. concrete curb, (e) 5,814 ft. concrete walks, (f) 131,-631 ft. grading, (g) 119,823 ft. asphaltic pavement, (h) 11,336 ft. concrete gutter, (i) 519 ft. concrete curb, from Thompson Bros., G and Divisadero Sts., (1a) $0.055 (1b) $0.235 (1c) $0.33 (1d) $0.65 (1e) $0.23 (2f) $0.049 (2g) $0.219 (2h) $0.33 (2i) $0.65; W. Hanranah, Griffith-McKenzie Bldg., (1a) $0.049 (1b) $0.229 (1c) $0.50 (1d) $0.59 (1e) $0.23; California Road & Street Impvt. Co., Bank of Italy Bldg., (1a) $0.058 (1b) $0.231 (1c) $0.29 (1d) $0.58 (1e) $0.23 (2f) $0.052 (2g) $0.219 (2h) $0.29 (2i) $0.58; Federal Constr. Co., Call Bldg., San Francisco, (2f) $0.056 (2g) $0.223 (2h) $0.30 (2i) $0.59. Noted Aug. 31.

Calif., Martinez—Improving Green, Ward and Talbart Sts., etc., from J. T. Sayles, Martinez, $22,180; Federal Constr. Co., Call Bldg., San Francisco, $23,800. Noted Aug. 24.

Calif., Stockton — Improving Pershing, Argonaut Sts., etc., (1) 11,266 cu.yd. excav., (2) 9,484 cu.yd. fill, (3) 23,907 ft. concrete curb and gutter, (4) 134,255 ft. cement concrete walks, (5) 448,081 ft. 2 in. asphaltic concrete on 3 in. macadam, from Clark & Henery Co., 38 South Sutter St., (1) $0.70, (2) $0.40, (3) $1, (4) $0.19, (5) $0.1625; Blumenkranz & Vernon, Farmers & Merchants Bank Bldg., (1) $0.75, (2) $0.40, (3) $1, (4) $0.20, (5) $0.185. Noted Aug. 31.

CONTRACTS AWARDED

Maine—State Hy. Dept., Augusta, to Arborio Road Constr. Co., 408 Main St., Hartford, Conn., bituminous macadamizing 2.64 mi. State Highway B, Project 58, in Brighton, $56,377. 3.16 mi. State Highway N, Project 61, in Perry, gravel, $65,268. 3.36 mi. State Highway W, Project 56, in New Sharon, gravel, $43,785; to A. D. Bridges Sons, Inc., Hazardville, Conn., bituminous macadamizing 1.004 mi. State Highway D, Project 54, in Rockport and Camden, $18,107. 5.8 mi. State Highway F, Project 59, in Turner, gravel, $68,823; to J. Arborio, 82 Church St., New Haven, Conn., 3.67 mi. State Highway W, Project 55, in Rome and New Sharon, gravel, $52,-557; to Frissell Eng. Co., Gardner, Mass., 3.78 mi. State Highway K, Project 52, in Presque Isle, cement concrete, $143,381. Noted Sept. 14.

Connecticut—State Hy. Dept., Hartford, to F. L. Ford, 173 Orange St., New Haven, paving 9,450 lin.ft. Willimantic-Norwich State Rd., 18 ft., in Franklin and Lebanon, 1,530 cu.yd. earth excav. $1.50, 1,400 cu.yd. borrow $1.50, 1,460 lin.ft. rubble drain $2, 4,090 cu.yd. plain concrete paving $10, etc., total $50,745 (extra for 6,200 bbl. cement at $2.50, $15,500).

Connecticut—State Hy. Dept., Hartford, paving 5,835 ft. North Westchester Rd., 18 ft., in Colchester, to Russo Bros. & Laurenz, 647 Main St., Hartford, 10,500 sq.yd. 7 in. traprock macadam $1.20, etc., total $19,628; 1,720 lin.ft. Water St., in Derby, 760 cu.yd. concrete, 1,125 lin.ft. concrete curbing, 3,850 sq.yd. earth grading, to D. W. Frione & Co., 105 Ward St., New Haven, $6,926, state furnished cement $3,000; 1,600 lin.ft. South Main St., in Seymour, 1,900 sq.yd. vitr. brick, 380 cu.yd. concrete, relaying 450 lin.ft. curbing, 3,850 sq.yd. earth grading, 265 cu.yd. concrete base, to T. J. Fleming, Waterbury, $9,759, state furnished cement $2,250; 1,600 lin.ft. Main St., in Naugatuck, to C. W. Blakeslee & Sons, Inc., 58 Waverly St., New Haven, 7,000 sq.yd. 3 in. asphalt $1.80, 1,080 lin.ft. curbing $0.60, resetting 1,646 lin.ft. curbing $0.33, 615 sq.yd. concrete sidewalk $0.14, 1,200 cu.yd. 6 in. concrete base $7, 7,000 sq.yd. earth grading $0.45, etc., total $26,852, state furnished cement $3,500. Noted Sept. 14.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, paving Ave. U, to J. J. Guinan Contg. Co., 2314 Gravesend Ave., $9,090; Amboy St. and Sterling Pl., etc., to Sicilian Asphalt Paving Co., 41 Park Row, New York, $15,510 and $7,661 respectively; Ave. H, Ridge Blvd., Bay 28th and 53rd Sts., also curbing and paving 61st St., to Borough Asphalt Co., 1301 Metropolitan Ave., $17,302, $44,158, $5,999, $6,951 and $7,303 respectively; Snyder Ave., etc., to Cranford Co., 52 9th St., $9,859; paving Wilson Ave., etc., to Cleveland Trinidad Paving Co., Flushing, $25,841; grading and curbing Troy Ave., also grading sidewalk space, curbing and laying sidewalks where necessary on Glenwood Rd., etc., to Grimm Constr. Co., 170 McKinley Ave., $7,541 and $1,854 respectively; grading and curbing 16th Ave., etc., to F. Persicano, 350 Fulton St., $1,844. Noted Sept. 7.

N. Y., Lockport—Resurfacing West Ave., patented willite, to Willite Rd. Constr. Co., 342 Madison Ave., New York, $34,895. Noted Sept. 7.

N. Y., Mamaroneck—Bd. Supervs. Westchester Co., Court House, White Plains, improving Mamaroneck Ave. from Washington Sq. north to County Highway 1581, here, to J. Dimando, Inc., Mamaroneck, $90,554. Noted Aug. 31.

N. Y., Yonkers—Bd. Supervs. Westchester Co., Court House, White Plains, improving 0.57 mi. Palmer Ave. from Central Ave. west to Miles Square Rd., to Roberts & Lemonjelli, Ridgefield, Conn., (street address not available), $26,717. Noted Aug. 31.

N. J., Bridgeton—Cumberland Co., reconstructing Sect. 1 Landis Ave., also improving Cohansey Rd., to Tri-State Constr. Co., Bridgeton, $275,717. Noted Aug. 24.

N. J., Moorestown—Burlington Co. (Mt. Holly) paving Chester Ave., concrete, here, to Union Paving Co., 30th and Locust Sts., Phila., $80,156.

N. J., Red Bank—Monmouth Co., Court House, Freehold, constructing State Highway Route 4, Sect. 5A, Maple Ave., here, to W. P. McDonald Co., 342 Madison Ave., New York City, 90.61% of engineers estimate ($120,928). Noted Aug. 17.

Pa., Pittsburgh—Grading, paving and curbing (1) Osgood St., (2) Marsonia, Meadville and Malvern Sts., (3) Center Ave., (4) Hamilton Ave., to T. Cronin Co., South 18th St., (1) $29,059, (2) $58,072, (3) $45,223; M. O'Herron Co., Carson St., (4) $53,832.

Pa., Wilkes-Barre—Paving county road from Mocanaqua to Newport Twp. line, 2½ in. bitoslag surface on 7 in. asphalt stone, to Eastern Paving Co., Colonial Trust Bldg., Phila., $189,083.

Maryland — State Roads Comn., Baltimore, paving following roads with concrete, 3 mi. Contr. A-21, Allegheny Co., to S. T. Brotemarkel, Cumberland, $114,369. 4 mi. Contr. F-57, Frederick Co., to M. J. Grove Lime Co., Lime Kiln, $130,488. 1 mi. Contr. AA-25, Anne Arundel Co., to F. M. Duvall, St. Margarets, $24,382. 1.5 mi. Contr. HO-23, Howard Co., to Apicella & Leonard Co., 224 Albemarle St., Baltimore, $50,674. 1 mi. Contr. H-29, Hartford Co., to Sutton Constr. Co., 1207 Wine St., Phila., $38,216; gravel surfacing 2 mi. Contr. HO-27, Howard Co., to E. R. P. Smith, Hyattsville, $18,421. 2 mi. Contr. HO-30, Howard Co., to H. O. Firor, 1707 Pratt St., Baltimore, $19,090. 2.5 mi. Contr. C-13, Calvert Co., and 3.9 mi. Contr. CH-21, Charles Co., to E. H. Schmidt, Baltimore (street address not available), $20,617 and $38,790 respectively. 4 mi. Contr. SM-20, St. Marys Co., to St. Marys Constr. Co., Mechanicsville, $32,922; 2 mi. Contr. P-37, Prince George Co., to E. R. P. Smith, Hyattsville, $16,355. 4 mi. Contr. C-14, Calvert Co., to T. Mullan, 3945 Greenmount Ave., Baltimore, $29,277. Noted Aug. 17 and 31.

Maryland—State Rds. Comn., Baltimore, paving following roads with plain concrete, 1.85 mi. Project 57, Frederick Co., to M. J. Grove Co., Frederick, $51,876. 2 mi. Project 82, Frederick Co., to Bester, Gosnell & Russell, Hagerstown, $63,201. 1.9 mi. Project 83, Harford Co., to Development & Constr. Co., Amer. Bldg., Baltimore, $55,544. 1 mi. Project 89, Dorchester Co., and 2 mi. Project 90, Wicomico Co., to P. D. Philips & Bros., near Quantico St., Salisbury, $23,067 and $46,773 respectively. 2 mi. Project 70, Garrett Co., to F. A. Dennison Co., Cumberland, $60,837; gravel surfacing 2.5 mi. Project 87, Charles Co., to B. M. Wilmer, $26,946. Noted July 20, 27, and Aug. 3.

W. Va., Charleston—Paving with hillside brick on 5 in. concrete 0.5 mi. Maine Dr., to G. T. Fogle & Co., Charleston, (street address not available) $21,213; paving with 7 in. concrete 0.5 mi. East End Alleys, to Abbott Bros., Charleston, (street address not available), $10,000; paving with hillside brick and asphaltic concrete on 6 in. concrete 0.8 mi. Sunset Dr. and Garvin Ave., also paving with hillside brick on 5 in. concrete 0.7 mi. West Ave., Garden and Red Oak Sts., to Board & Haley Co., Charleston, (street address not available) $32,163 and $28,819 respectively.

N. C., Greensboro—Irving Park Co. paving portions of Sunset Dr., Country Club Pl., Fairview and St. Andrews Rds., 2 in. asphalt on concrete, to Murray Constr. Co., Greensboro, $50,000.

S. C., Sumter—Sumter Co. hardsurfacing with asphaltic concrete 6.1 mi. Manning Rd. and 4.2 mi. Camden Rd., to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, N. C., $152,840 and $102,770 respectively; paving with concrete 4.3 mi. Bishopville Rd. and paving with asphaltic concrete 4.5 mi. Mayesville Rd., to C. D. Rigsbee, Durham, N. C., $119,804 and $117,339 respectively; paving with asphaltic concrete 4.3 mi. Pinewood Rd., to Powell Paving & Contg. Co., Palmetto Bank Bldg., Columbia, $107,999. Noted Aug. 31.

Fla., Safety Harbor—A. E. Shaver, clk., paving various streets, incl. 8,000 cu.yd. excav., 5,180 sq.yd. vitr. brick (taking up, cleaning and relaying with asphalt filler), 3,450 sq.yd. vitr. brick furnished by town (hauling and laying with asphalt filler), 7,176 sq.yd. vitr. brick, 7,176 sq.yd. asphalt block, 6,002 sq.yd. sheet asphalt, 6,002 sq. yd. 5 in. compacted rock base, 5,358 lin.ft. 6 x 18 in. concrete curb, 11,750 lin.ft. 4 x 15 in. concrete curb, etc., to J. L. Cone & Co., Walton and Caesar Sts., Tampa, $30,-000. Noted Aug. 24.

Tennessee — State Hy. Dept., Nashville, reconstructing base course on Federal Aid Projects 22 and 24, Marion Co., to A. J. Wardrep, Holston Bank Bldg., Knoxville, $38,056; constructing road of hand placed stone base course and bridges on Federal Aid Project 65-B, Warren Co., to Warren Co. Constr. Co., Stahlman Bldg., Nashville, roadway $127,098, bridges $3,561. Noted Aug. 24.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 0.956 mi. Sect. "K" Caldwell-Marietta Rd., plain concrete, to G. W. McElfresh, Caldwell, $36,423; grading and drainage structures on 2 mi. Sect. "L" Mt. Gilead-Mansfield Rd., Morrow Co., to O. Johnson, West Mansfield, $25,494; bridge on Sect. "S" Salineville-Yellow Creek Rd., Columbiana Co., to Cox & Heflop, Kensington, $5,474. Noted Sept. 7 and 14.

O., Akron—W. C. Peters, dir. Pub. Serv., grading, laying sidewalks and paving North Main St. from York St. to Cuyahoga Falls Ave., to T. E. McShaffrey Constr. Co., 171 South Forge St., $80,465; Aqueduct St. from Edgerton Rd. to Tallmadge Ave., also resurfacing South Case Ave. from East Market St. to Little Cuyahoga River, to Columbus Asphalt Paving Co., Buckeye Bldg., $34,941 and $5,767 respectively; grading and laying sidewalks on Wall St. rfom Edward to Mildred Aves., grading, laying sidewalks and graveling Lakemont Ave. and Hillcrest St., Glenwood Ave. from Gotham to Rosalind Courts, and Englewood Ave. et al., also improving Norka Ave. from Thornton to Scheck Sts., to Di Foti Constr. Co., 72 Furnace St., $7,984, $13,545, $8,238, $13,095 and $2,586 respectively; grading, laying sidewalks and graveling Linden St. from Cuyahoga Falls to Birchwood Aves., to Timmis Clark Co., 437 2nd Natl. Bldg., $3,838; improving Home Ave. from East Tallmadge Ave. to north corporation line, to Hollinger & Davidson, $2,030; paving, laying sidewalks and sewers in Lakemont Ave. also paving Middlebury St. from McNaughton St. to Buchtel Ave., to E. H. Rawle, 839 Bloomfield Ave., $14,177 and $13,517, respectively. Noted Sept. 14.

O., Akron—Summit Co., to A. F. Wible, 859 Chalker St., grading and paving 1.19 mi. Richfield-Hudson Rd. 19, Sect. A, 16 ft., 7,500 cu.yd. earth excav. at $0.50 per cu.yd., 11,250 sq.yd. 3 in. bituminous macadam $1. 11,250 sq.yd. 5 in. waterbound macadam base $0.84, total $26,001, engrs. est. $26,131; to V. Olson Contg. Co., Heberich Bldg., 1.23 mi. Brittain-Massillon Rd. 49 B. 2, 12,500 cu.yd. earth excav. $0.54, 12,500 sq.yd. 8x10 in. concrete $2.93, $44,925, engrs. est. $45,763. Noted Sept. 14.

O., Cleveland—Cuyahoga Co. paving Bean Rd., concrete, to Freshwater Constr. Co., Natl. Bldg., $48,167. Engrs. est. $50,-101. Noted Sept. 14.

O., Cleveland Heights (Warrensville P. O.)—Paving Cedar Rd., to Cleveland Trinidad Paving Co., The Arcade, Cleveland, $68,845; Inglewood and Roanoke

Streets and Roads (Continued)

Rds., to Rieley Bros., The Arcade, Cleveland, $30,368; Greyton and Nela View Rds., to Spence Bros., c/o Pavers Exch., Society for Savings Bldg., Cleveland, $22,910. Noted Sept. 14.

O., Greenfield—Grading and paving Jefferson St. and Edge Ave., to W. H. Ringwald & Sons Co., Chillicothe, $41,073 and $9,711, respectively. Noted Aug. 17.

Michigan—State Hy. Dept., Lansing, grading and surfacing 6.98 mi. State Trunk Line Rd. 22-11, Sect. B, Leelanau Co., 56,809 cu.yd. excav., 65,518 sq.yd. gravel, to Leelanau Co. Rd. Comn., Cedar, $45,191. Noted Aug. 17

Mich., Detroit—To Detroit Ashalt Paving Co., 20 McGraw Bldg., grading, shaping and paving with sheet asphalt on 8 in. concrete, Malvern Ave. $8,388, Central Ave. $40,451, 14th Ave. $7,002, Quincy Ave. $4,306, Stoepel Ave. $17,202; to G. R. Cooke, 1260 Penobscot Bldg., Arlington Ave. $12,734, Dakota Ave. $17,305, Minnesota Ave. $17,333, Montana Ave. $26,607; to Cleveland Trinidad Paving Co., 402 Hammond Bldg., 11th St. $16,264. Noted Sept. 14.

Mich., Detroit—To Detroit Asphalt Paving Co., 20 McGraw Bldg., paving 3,500 sq.yd. Six Mile Rd. from Woodward to Oakland Aves., $19,870, also 2,700 sq.yd. from Oakland Ave. to Grand Trunk Ry., $13,198, both 18 ft. wide, less single track, 3½ in. sheet asphalt on 8 in. concrete.

Mich., Detroit—To R. J. Powelson Co., 6415 Iroquois Ave., paving Alley 1555, $3,911, Alley 1650, $2,905; to T. E. Currie, 20 McGraw Bldg., Alley 1556, $4,319, Alley 1557, $2,539; to A. F. Lester, 1631 Dime Bank Bldg., Alley 1558, $3,606; H. Mincel, 4573 Cooper St., Alley 1559, $1,378; to G. Nunn, 6409 3rd Ave., Alley 1561, $3,222, Alley 1566, $4,350; to J. Porath, 745 Griswold St., Alley 1562, $2,658; to Otis Cement Constr. Co., 806 Hammond Bldg., Alley 1563, $2,700, Alley 1564, $3,268, Alley 1565, $4,932.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, to R. A. Baum, Paris, concrete paving 5.37 mi. Route 1, Sect. 25, Clark Co., $116,138; Chicago Heights Coal Co., Chicago Heights, 1.29 mi. Route 1, Sect. 164, Cook Co., $21,881; Mautz & Oren, Effingham, 4.84 mi. Route 3, Sect. 71, Randolph Co., $95,869, 4.62 mi. Route 3, Sect. 72, Randolph Co., $102,039; R. L. Williams, Wyatt, Mo., 5.94 mi. Route 9, Sect. 9, McLean Co., $98,184, 3.75 mi. Route 9, Sect. 10, McLean Co., $62,016, 4.17 mi. Project 32, Sect. 11, Washington-Jefferson Co., $70,907, 3.4 mi. Project 32, Sect. 12, Jefferson Co., $59,109, 5.16 mi. Project 32, Sect. 13, Jefferson Co., $96,784; Baker, Agerter & Thompson, Indianapolis, Ind. (street address not available), 6.1 mi. Route 10, Sect. 19, Sangamon Co., $122,872, 6.63 mi. Project 44, Sect. 2, Christian Co., $135,554; Darrow & Jacobson, 311 Carey Ave., Waukegan, 4.61 mi. Route 20, Sect. 12, Lake Co., $99,124; Jaicks Bros., 275 Thatcher Ave., River Forest, 0.77 mi. Route 22, Sect. 17, Kane Co., $15,695; Eiff & Simons, 605 North 14th St., Quincy, 5.09 mi. Route 31, Sect. 5, Adams-Brown Co., $88,530; 5.67 mi. Route 31, Sect. 6, Brown Co., $100,560; Nelson Bros., Jerseyville, 5.36 mi. Route 38, Sect. 1, Jersey Co., $113,904; H. K. Rhoades, Lincoln, 4.87 mi. Project 26, Sect. 21, Logan Co., $88,310, 5.68 mi. Project 26, Sect. 22, Logan Co., $100,096; I. D. Lain, Bloomington, 5 mi. Project 28, Sect. 26, Livingston Co., $106,113; McMahon Constr. Co., Rochester, Ind., 4.23 mi. Project 29, Sect. 36, Iroquois Co., $91,223, 6.6 mi. Project 29, Sect. 37, Iroquois Co., $120,856, 2.9 mi. Project 29 Sect. 38-D, Iroquois Co. $51,921; Reith-Riley Constr. Co., Goshen, Ind., 3.65 mi. Project 30, Sect. 15, Kankakee Co., $67,127, 5.63 mi. Project 30, Sect. 16, Kankakee Co., $113,907, 4.04 mi. Project 30, Sect. 17, Will Co., $82,266; Sutton & Moore, Canton, 5.16 mi. Project 33, Sect. 42, Fulton Co., $120,383; Indiana Road Paving Co., Bement, 5.37 mi. Project 36, Sect. 66, Woodford-Marshall-La Salle Co., $93,999, 4.87 mi. Project 36, Sect. 67, Marshall-La Salle Co., $95,100; Russell Condon Constr. Co., 311 Karbach Bldg., Omaha, Neb., 5.21 mi. Project 38, Sect. 45, Schuyler Co., $122,105; C. C. Vanderbloom & Sons, Pecatonica, 5 mi. Project 39, Sect. 2, Carroll Co., $110,943, Stocker Gravel & Constr. Co., Highland, 0.35 mi. Route 6, Sect. E, Bond Co., $8,761, 1.68 mi. Route 7, Sect. N-29-A, Madison Co., $13,433; Illinois State Contg. Co., 2100 Wabash Ave., Chicago, 0.94 mi. Route 15, Sect. K-29-A, La Salle Co., $19,151; L. Rich Constr. Co., Denny and Manchester Sts., St. Louis, Mo., grading Route 1, Sect. 29-A, White-Gallatin-Saline Co., 90,505 cu.yd. excav., $26,599, Route 1, Sect. 30-A, Saline Co., 30,125 cu.yd. excav., $15,024, Route 1, Sect. 31-A, Saline Co., 47,500 cu.yd. excav., $14,878, Route 1, Sect. 33-A, Saline Co., 45,895 cu.yd. excav., $14,835, Route 1, Sect. 34-A, Williamson-Johnson Co., 60,410 cu.yd. excav., $28,954; Buis & Olsen, St. Joseph, Mo., Route 1, Sect. 35-A, Johnson Co., 31,400 cu.yd. excav., $22,776, Route 1, Sect. 36-A, Johnson Co., 55,970 cu.yd. excav., $29,038, Route 1, Sect. 37-A,, Johnson Co., 52,010 cu.yd. excav., $25,485, Project 33, Sect. 43-A, Fulton Co., 60,930 cu.yd. excav., $24,142; J. A. McGaughey Co., 1319½ Columbia Ave., Chicago, Route 3, Sect. 37-A, McDonough Co., 56,049 cu.yd. excav., $15,822; Route 8, Sect. 32-A, Woodford Co., 67,020 cu.yd. excav., $21,933, Project 26, Sect. 20-A, Logan Co., 25,797 cu.yd. excav., $5,282; New Era Constr. Co., 6548 Bosworth Ave., Chicago, Route 8, Sect. 37-A, Tazewell Co., 42,225 cu.yd. excav., $17,891, Route 9, Sect. 9-A, McLean Co., 42,120 cu.yd. excav., $19,640, Route 9, Sect. 10-A, McLean Co., 26,370 cu.yd. excav., $12,668; W. O. Whitsell, Mt. Vernon, Route 12, Sect. 15-A, Marion Co., 37,340 cu.yd. excav., $14,210; Cameron, Joyce & Co., Keokuk, Ia., Route 28, Sect. 4-A, Knox-Henry Co., 36,865 cu.yd. excav., $16,950, Route 28, Sect. 5-A, Henry Co., 31,550 cu.yd. excav., $13,342; A. O. McCoy, Mt. Sterling, Project 38, Sect. 44-A, Schuyler Co., 46,830 cu.yd. excav., $27,540. Noted Aug. 31.

Ill., Blue Island—Bd. Local Impvts., paving various streets, to J. A. Sackley Co., 133 West Washington Blvd., Chicago, $144,049. Noted July 20.

Wis., Milwaukee—Milwaukee Co. surfacing 2.86 mi. Brown Deer-Menomonee Falls Rd., plain concrete, to Froeming Bros., 1326 Humboldt Ave., $89,046. Noted Sept. 7.

Minnesota—State Hy. Dept., St. Paul, concrete paving 10,100 sq.yd. Minnesota Trunk Highway No. 1, near Northfield, Rice Co., to Johnson, Drake & Piper, 809 1st Natl. Soo Line Bldg., Minneapolis, $24,468.

Minn., Minneapolis — Will resurface Nicollet Ave. between Washington Ave. and 10th St., probably creosoted wood blocks, $87,000. Work will be done in spring, by day labor.

Kan., Eureka—Paving 20 blocks, asphaltic concrete, to M. R. Ammerman, 248 North Market St., Wichita, $2.20 per sq.yd.

South Dakota—State Hy. Dept., Pierre, grading 6.6 mi. Federal Aid Project 50, Sanborn Co., to Pioneer Bridge Co., Mitchell, 109,517 cu.yd. excav. $0.24 per cu.yd., total 37,492; 7.467 mi. Federal Air Project 102, Lincoln Co., to Canton Block & Tile Co., Canton, 59,812 cu.yd. excav. $0.26, 207.35 cu.yd. Class A concrete $20, total $22,925; 4.61 mi. Federal Aid Project 23, Sect. C, Jackson Co., to D. D. Bidwell, Egan, 7,032 cu.yd. gravel surfacing $0.60, 4.461 mi. road shaping $100, etc., total $15,289; 13.07 mi. Federal Aid Project 61, Brule Co., to R. P. England, Murdo, 115,095 cu.yd. excav. $0.26, 269.15 cu.yd. Class A concrete $24, total $40,142; 10.59 mi. Federal Aid Project 108, Charles Mix Co., to H. Pickus Constr. Co., 309 Mass Bldg., Sioux City, Ia., 77,669 cu.yd. excav. $0.285, 227.5 cu.yd. Class A concrete $26, total $31,034; 13.77 mi. Federal Aid Project 115, Minnehaha Co., to W. R. Larson Constr. Co., 520 Secy. Natl. Bank Bldg., Sioux Falls, 106,490 cu.yd. excav. $0.265, 320.75 cu.yd. Class A concrete $18 total $38,241; 11.06 mi. Federal Aid Project 98, Lincoln Co., to Canton Block & Tile Co., Canton, 76,570 cu.yd. excav. $0.27, 143.17 cu.yd. Class A concrete, $20, total $27,538.

Ark., Little Rock—Pulaski Co. paving 8 mi. and 12 mi. various roads, bituminous macadam, to Standard Paving Co., of Arkansas, Little Rock, (street address not available), $261,281 and $281,972 respectively. Noted Aug. 10.

Tex., Ft. Worth—Tarrant Co. grading, gravel surfacing, etc., to Purvis & Lowery, Ft. Worth, Arkansas Lane, C-50, $10,440, Bludworth School Rd. C-53 $6,433, Pleasant Glade Rd. C-55 $10,000; to Tarrant Co., Ft. Worth, Denton Rd. C-52 and Cold Springs Rd. C-46 $38,200; to McCoy & Richards, Arlington, constructing road bed incl. gravel base on 8.13 mi. Grapevine-Cardinal Rd. through Bedford to Euless Rd., 16 ft., $25,704.

Wash., Seattle—Paving Olive Way et al., to Olympic Constr. Co., 400 West Harrison St., 1,000 sq.yd. vitr. brick at $3, 9,100 sq.yd. 6 in. sandstone paving $6.20, 1,000 sq.yd. asphalt $2.75 and 1,200 sq.yd. asphalt $3, 2,600 sq.yd. 7 in. concrete $2, 2,900 lin.ft. asphaltic concrete curbing $0.80, 3,550 lin.ft. concrete A curbing $0.60, 3,500 sq.yd. 2 course concrete sidewalks $1.40, 12,000 cu.yd. earth excav. $0.70, total $112,279, engrs. est. $111,965; paving Lakedell Ave. et al., to J. L. Smith, Pioneer Bldg., 7,360 sq.yd. 6 in. concrete $2.18, 2,000 lin.ft. asphaltic concrete curbing $0.75, 3,320 lin.ft. concrete curbing $0.50, 1,850 lin.ft. concrete sidewalk $1.45, 1,500 cu.yd. earth excav. and 12,000 cu.yd. sub grade $0.70, total $43,785, engrs. est. $42,555. Noted Sept. 7.

Wash., Yakima—Paving South 3rd St. from Walnut St. to city limits, bituminous concrete on concrete, to Yakima Paving Co., Yakima, $60,551. Engrs. est. $65,000.

Calif., Fresno—Fresno Co., grading and paving Route 4, Sect. A, to T. Hanrahan, 1361 P St., $168,999. Noted Sept. 14.

Calif., Fresno—Supervs. Fresno Co. paving Route 20, Sect. A, Co. Highway system, from Sanger to Adams Ave., to California Constr. Co., Mattei Bldg., $83,712. Noted Aug. 24.

Calif., Healdsburg—Improving various streets to Clark and Henery Constr. Co., 38 South Sutter St., Stockton, $152,519. Noted Sept. 14.

Calif., Marysville—To S. D. Miller, Manteca, grading and covering with either gravel or crushed rock to depth of 8 in. in center and 4 in. on side, 2.84 mi. road from Dobbins to Cottage Mill Ravine, $11,250; constructing 3 mi. macadam on Ostrom Rd. at Ostrom Station running west and south to Plumas School House, 4,500 cu.yd. grading, 2,015 cu.yd. crushed stone, etc., $11,000. Noted Aug. 10.

Calif., Turlock—To A. Teichert & Son, Oschner Bldg., Sacramento, improving portion of High St., 68.500 sq.ft. 1½ in. warrenite bitulithic on 3 in. asphaltic concrete $0.206, 100,300 sq.ft. grading $0.035, 2,000 ft. concrete gutter $0.24, 300 ft. 12 in. culverts $3.50; portion of North Bway., 38,000 sq.ft. 1½ in. warrenite bitulithic on 3 in. asphaltic concrete $0.206, 72,100 sq.ft. grading $0.035, 2,700 ft. concrete gutter $0.24, 1,800 ft. concrete curb $0.50, 270 ft. culverts $3.50. Noted June 8.

Calif., Yuba City—Supervs. Sutter Co., improving Franklin Rd., to Galbraith & Janes, Box 338, 18,000 sq.yd. grading at $0.18, 1,250 yd. rein.-con. pavement, $12.60. Noted Aug. 31.

Ont., Hamilton—Will build new asphalt pavements on Gore St., by day labor under supervision of E. R. Gray, city engr. $50,000.

Ont., Walkerville—Asphalt pavements to Merlo, Merlo & Ray, Sandwich St., Ford; concrete work to Cadwell Sand & Gravel Co., 228 Sandwich St., Windsor. Total est. $65,000.

Industrial Works

PROPOSED WORK

Mass., Spencer—Wickwire-Spencer Steel Corp. having preliminary plans prepared 3 story, 33 x 100 ft. factory, rein.-con. and brick, plain foundation. $40,000. Architect not announced.

R. I., Providence—Hope St. Garage Co., Inc., 825 Hope St., plans 1 story garage and service station, brick, steel and concrete, 4th St. $50,000. Architect not announced.

N. Y., Buffalo—W. W. Grupp, 425 Humboldt Parkway, plans 1 story, 50 x 52 x 64 x 68 ft., brick, steel and concrete garage, Sycamore St. To exceed $40,000.

N. Y., Buffalo—E. Waechter, 100 Ontario St., plans 2 story, 60 x 100 ft., brick garage, Ross Ave. and Ontario St. To exceed $40,000.

N. ..., Geneva—Lisk Mfg. Co., Canandaigua, plans enameling plant on 14 acre site, here. $1,000,000. Architect not announced.

N. Y., Long Island City—Perry Candy Co., 408 West Bway., New York, soon lets contract brick, steel and concrete factory, plain foundation, Wilbur Ave., here. $75,000. R. G. Cory, 30 Church St., New York, archt. and engr.

N. Y., Jamestown—Jamestown Worsted Mills Co., 335 Harrison St., having plans prepared by Lockwood, Green & Co., archts. and engrs., 1556 Hanna Bldg., Cleveland, O., for factory No. 16, 4 story, 70 x 180 ft., brick, steel and concrete. $250,000.

Pa., Columbia—Peerless Folding Box & Crate Co., having plans completed by F. S. Sheeman, archt., Swan Annex, Johnstown, 1 story, 50 x 200 ft. brick, steel and concrete factory. $40,000.

Pa., Lancaster—Monitor Bi-Loop Radiator Co., Woolworth Bldg., plans addition to factory. Architect not announced.

Industrial Works (Continued)

Pa., Monongahela—H. R. Downer and W. M. Rees, c/o Keystone Garage, having plans prepared 2 story and basement, 60 x 200 ft. brick, steel, stone and tile garage. $40,000. Private plans.

Pa., Pittsburgh—Gulf Refining Co., Frick Annex, plans 144 x 175 ft. refinery, Mathilda and Gross Sts. Private plans.

Pa., Williamsport—W. D. Crooks & Sons, Park St., plans 2 story and basement, 125 x 160 ft. brick and steel plant, Park St. $75,000.

S. C., Greenville—Judson Mills, Community Bldg., having plans prepared by J. E. Sirrine Co., archts., South Main St., 2 story, 175 x 300 ft., textile mill. $600,000.

Ala., Waterford—Houston Power Co., Newton, plans 3,000 hp. hydro-electric power plant, here. Southern Eng. Corp., Albany, Ga., engrs.

Tenn., Knoxville—Louisville & Nashville R.R., Louisville, Ky., plans large concrete and steel freight depot, here. $150,000. W. H. Courtenay, 1010 3rd St., Louisville, Ky., ch. engr.

Mich., Detroit—Whitney-Hollinger Co., 408 Dime Bank Bldg., having plans prepared 4 story, 50 x 150 ft., rein.-con. and brick plant, plain foundation, Inner Belt R. R. $1,000,000. Architect's name withheld.

Wis., Antigo—Faust Lumber Co. plans 1 and 2 story, 75 x 190 ft., brick and rein.-con. saw mill, plain foundation, to replace one recently destroyed by fire. $75,000. Architect not selected.

Wis., Clintonville—Service Auto Co. plans 1 story, 50 x 120 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation. $40,000. A. C. Haase, mgr. Architect not selected.

Wis., La Crosse—J. F. and L. A. Keizer, 935 West Ave., S., plans 1 story, 50 x 60 ft., garage and filling station, brick and rein.-con., plain foundation. $40,000. Architect not selected.

Wis., Pardeeville—Pardeeville Canning Co. plans 2 story and basement, 60 x 90 ft., brick, rein.-con. and steel factory, plain foundation. $40,000. Architect not selected.

Wash., Kelso—See "Buildings."

Wash., Seattle—F. D. Black, Inc., Colman Bldg., having plans prepared by J. R. Nevins, archt., Hoge Bldg., 3 story factory, concrete and mill constructed, R.R. Ave. and Connecticut St. $150,000.

Calif., Oakland—Chevrolet Motor Co., 3044 West Grand Blvd., Detroit, Mich., had plans prepared by A. Kohn, archt., 1000 Marquette Bldg., Detroit, Mich., 2 story, 146 x 684 ft., rein.-con., brick and steel, auto body plant, Hillside Ave. and 73rd St., here. $600,000.

Calif., San Francisco—Ferro Bros., 2823 23rd St., had plans prepared by C. Fantoni, archt., 550 Montgomery St., 2 story, 25 x 104 ft., brick and steel, addition to bakery, 23rd and York Sts.

Que., Montreal—Quebec Liquor Comrs., 34 St. Paul St. W., plans 2 story garage, Delormier St., $53,000.

Ont., Niagara Falls—Davidson & Williams, Chippawa, having plans prepared for garage and repair shop, here. $50,000. Prices wanted on equipment.

Ont., St. Thomas—Bylaw to spend $120,000 for rebuilding plant and installing new vertical retorts was defeated. New plans are to be prepared by R. Christie, supt. city gas works, and if work can be reduced to $100,000 it will probably be proceeded with.

BIDS DESIRED

N. J., Trenton—Sept. 26, by Bd. Freeholders Mercer Co., 2 story, 55 x 75 ft., brick and steel warehouse and garage, Brunswick Ave. $40,000. W. W. Slack & Son, 142 East State St., archt.

Pa., Meadville—Meadville Iron Co, Inc., Mill St., taking bids 1 story, 60 x 88 ft. addition to factory, Mill St. Shutts & Morrison, Marine Bank Bldg., Erie, archts.

Pa., Phila.—Budd Mfg. Co., 21st and Hunting Park Aves., taking bids 6 story, 100 x 329 ft. rein.-con. and brick factory, plain foundation, 21st and Hunting Park Aves. Ballinger & Co., 12th and Chestnut Sts., archts.

Va., Richmond—Sept. 25, by Ophuls & Hill, Inc., consult. engrs., 112-114 West 42nd St., New York, remodeling building and installing equipment for Merchants Cold Storage & Ice Mfg. Co., 208 South 6th St. $250,000.

Wis., Milwaukee—C. H. Tharinger, archt., 3328 State St., taking bids and opens same about Sept. 25, 6 story and basement, 72 ft. high, 43 x 138 ft., brick and timber warehouse, plain and wood pile foundation, for Neidhofer & Co., 253 East Water St. Noted April 13.

Wis., Union Grove—Oct. 3, by State Bd. Control, Madison, 1 story, 50 x 90 ft., brick and steel laundry, plain foundation, at Wisconsin Home for Feeble Minded, here. $40,000. A. Peabody, Capitol Bldg., Madison, archt.

Kan., Atchinson—Blair Milling Co., 300 South 4th St., taking bids 6 story and basement, 36 x 83 ft., flour mill, concrete pile foundation. H. Wyatt, 306 McMillian Bldg., Kansas City, Mo., archt.

Mo., North Kansas City—Sept. 24, by Burrell Eng. Co., archts. and engrs., 403 Arcade Bldg., Kansas City, 8 story, 64 x 204 ft., rein.-con., brick and steel mill, 300,000 bu. capacity, 14 tanks, 20 ft. diameter, 90 ft. high, here, for Kansas Flour Mills Co., Postal Telegraph Bldg., Kansas City. Noted Sept. 14.

BIDS RECEIVED

Calif., Petaluma—Poultry Producers of Central California, 323 East Washington St., 110 x 210 ft. packing plant, hollow tile, from Ward & Jones, 180 Jessie St., San Francisco, $42,988; Vogenson Constr. Co., Petaluma, $45,120; R. W. Moller, Call Bldg., San Francisco, $45,994.

Calif., Sacramento—State Dept. Pub. Wks., 2 story, 160 x 160 ft., printing plant, from Davison & Nicolsen, 180 Jessie St., San Francisco, $94,800; Herndon & Finnegan, 1814 17th St., $103,926; K. E. Parker Co., 519 California St., San Francisco, $105,400. Noted Aug. 31.

CONTRACTS AWARDED

R. I., Providence—United Electric Railways Co., Union Sta., 1 and 2 story, 88 x 250 ft. garage and service station, brick and concrete, Melrose and Russell Sts., to F. L. Pierce, 201 Union Trust Bldg. Noted Sept. 7.

Del., Wilmington—Hilles & Jones Co., 2 story, 25 ft. high, 88 x 240 ft. foundry, steel frame, brick walls, plain foundation, 9th and Church Sts., to Shoemaker-Satterthwaite Bridge Co., 4 South 15th St., Phila. Engrs. est. $50,000.

N. Y., Brooklyn—Rubel Coal & Ice Corp., Glenmore Ave., 1 story, 100 x 168 ft., brick, steel and concrete factory, plain foundation, Ave. J and East 10th St., by day labor. $200,000. Private plans.

N. Y., Fulton—Peters Chocolate Co., 40 x 80 ft. boiler house incl. boiler foundations, 8 x 8 x 140 ft. power tunnel and chimney foundation, to Barto-Phillips Co., 52 Vanderbilt Ave., New York. $50,000.

N. Y., Hudson—Holbrook Co., 100 x 260 ft. automobile body manufacturing building, 20 x 30 ft. boiler house, 20 x 30 ft. service building and 25 x 50 ft. connecting passage, etc., to Barto-Phillips Co., 52 Vanderbilt Ave., New York, $80,000.

N. Y., Rochester—Jensen-Mac Collum Co., 529 East Main St., removing present gas filling station and erecting 1 story, 100 x 155 ft. and 20 x 24 ft. auto sales and service station, brick and steel, concrete pile foundation, Main St. E., general contract, to J. B. Pikee, 1 Circle St. Archts. est. $75,000.

Pa., Phila.—Harrison Brush Co., 4th and Arch Sts., 3 story and basement, 30 x 110 ft. rein.-con., brick and steel factory, plain foundation, 4712-14 Market St., to Schaefer & Co., Otis Bldg. Archts. est. $80,000. Noted July 20.

Pa., Pittsburgh—Graham Nut & Bolt Co., 1317 West Carson St., 1 story factory, steel frame, Neville Island, to Harding & Crea, White Bldg., Buffalo, N. Y., $96,000.

N. J., Trenton—Standard Inlaid Mfg. Co., East State St., 2 story, 35 x 258 ft., rein.-con. and brick factory, to Karno-Smith Co., Broad St. Bank, $50,000.

Tenn., Nashville—Baptist Sunday School Bd., 8th Ave., 4 story, publishing and mailing building, brick, concrete and steel, Berryhill St., to E. G. Holliday Co., 22 Noel Blk., $153,000. Engrs. est. $175,000.

O., Cleveland—A. Claus Mfg. Co., 5701 Walworth Ave., 1 story, 80 x 450 ft. and 80 x 240 ft. brick and steel factory and warehouse, Brook Park Rd., to H. G. Slatmyer & Son Constr. Co., 203 Lakeside Ave., N. W. Archts. est. $250,000.

Mich., Flint—Fisher Body Ohio Co., East 140th St. and Coit Rd., Cleveland, O., 2 story, 202 x 401 ft. rein.-con. and brick factory, Wilcox St., to Realty Constr. Co., Flint, $500,000. Noted Sept. 7.

Wis., Appleton—Valley Motor Car Co., 726 College Ave., 2 story, 50 x 60 ft., garage and repair shop, brick and rein.-con., to Appleton Constr Co., Odd Fellows Bldg. Engrs. est. $40,000.

Wis., Athens—Rietbrock Land & Lumber Co., 700 Cedar St., Milwaukee, will build 2 story, 25 ft. high, 40 x 80 ft., brick and timber planing mill, by day labor. Private plans.

Wis., Hartford—Kissel Motor Car Co. structural steel for power house, 40 x 80 ft., 40 ft. high, brick and steel, plain foundation, to Milwaukee Bridge Co., 1400 34th St., Milwaukee; balance of work to be done by day labor. Engrs. est. $40,000. Cahill & Douglas, 217 West Water St., Milwaukee, engrs.

Wis., Oshkosh—Winnebago Co. c/o Clerk, 1 story, 58 x 120 ft., garage and repair shop, brick and rein.-con., plain foundation, to Blake Constr. Co., 816 College Ave., Appleton. Engrs. est. $40,000. Noted Aug. 17.

Wis., Sheboygan—Keil Oil Co., c/o W. G. Keil, 1516 North 9th St., will build 1 story, 40 x 90 ft., brick and rein.-con. filling station and garage, by day labor. $40,000. Private plans.

POWER HOUSE—COHOES, N. Y.

Following are lowest bids opened Aug. 16, by C. L. Cadle, supt. Pub. Wks., Capitol, Albany, for constructing a power house and work incidental thereto, (A) Brown, Lowe & Law Bros., 361 Foster Ave., Schenectady; (B) Eastover Constr. Co., Inc., Herkimer; (C) Troy Public Works Co., Utica. The unit bids were as follows:

	A	B	C
Pumping, bailing and draining (lump sum)	$7,000 00	$7,500 00	$7,500 00
4,500 cu.yd. excavation	2 50	1 25	3 00
48 M ft. b.m. sawed lumber	100 00	90 00	100 00
7,100 cu.yd. first-class concrete	17 70	21 00	19 00
1,725 cu.yd. second-class concrete	14 50	14 00	15 00
350 cu.ft. precast concrete	4 00	1 90	2 00
9,400 lb. iron castings	.08	.08	.08
470,000 lb. metal reinforcement	.06	.075	.055
800 lin.ft. wrought iron pipe railing	2 00	2 00	2 00
560,000 lb. structural steel	.06	.06	.055
3,000 sq.yd. painting walls and ceilings	.50	.45	.50
4,600 sq.ft. tile floor	.75	.68	.60
50,000 lb. machinery	.25	.25	.25
1 40-ton crane	9,550 00	11,500 00	10,000 00
1 15-ton crane	6,400 00	7,000 00	6,500 00
Installing hydraulic equipment (lump sum)	10,000 00	11,000 00	10,000 00
1,700 cu.ft. stonework	4 00	3 95	4 00
13,500 sq.ft. face brickwork	1 00	1 00	1 00
11,300 cu.ft. common brickwork	1 00	99	1 00
452 sq.yd. cement plaster	1 75	1 68	1 75
3,700 sq.ft. solid metal windows	1 25	1 20	2 80
15 metal covered doors	80 00	75 00	80 00
1 vertical lift sliding door	800 00	880 00	800 00
72 squares composition roofing	18 00	17 00	18 00
175 lin.ft. 4-in. downspouts	2 00	1 90	2 00
1 12-in. ventilator	40 00	35 00	40 00
2,000 lin.ft. fibre duct	.25	.25	25 00
10,000 lbs. metal duct	.25	.14	15 00
Electrical work (lump sum)	3,500 00	2,500 00	2,500 00
Extended totals	$329,887	$334,966	$340,474

Buildings

PROPOSED WORK

Mass., Boston—Apartment and Store—Coleman & Gilbert, 331 Huntington Ave., having plans prepared, apartment and store building, probably concrete, Huntington Ave. and Gainsborough St. $400,000-$500,000. Architect not announced.

Conn., Bridgeport—High School—Bd. Educ. plans 3 story and basement, brick and concrete, Boston and Central Aves. $900,000. Architect not selected.

Conn., Greenwich—Lodge—Acacia Lodge 85, A. F. & A. M. Havemeyer Pl., having plans prepared by G. B. Post & Sons, archts., 101 Park Ave., New York City, and F. G. C. Smith, associated archt., Smith Bldg., 2 story, 86 x 110 ft. brick and concrete, Havemeyer Pl. $150,000. This corrects report of Sept. 7 issue.

N. Y., Arverne (Far Rockaway P. O.)—High School—Bd. Educ., 500 Park Ave., New York, plans brick, steel and stone, plain foundation, Beach 61st St. and Boulevard, here. $1,260,000. C. B. J. Snyder, Concord St., Brooklyn, archt. and engr.

N. Y., Brooklyn—Hospital—Methodist Episcopal Hospital, 6th St., soon lets contract 100 x 145 ft., brick, steel and stone addition, plain foundation, 6th St. and 7th Ave. $450,000. Crow, Lewis & Wick, 200 5th Ave., New York, archts. and engrs.

N. Y., Hicksville—High School—Bd. Educ. having sketches made by Coffin & Coffin, archts. and engrs., 522 5th Ave., New York, brick, steel and stone, plain foundation. $200,000.

N. Y., New York—Office—Thirty-Three West 60th St. Corp., c/o Rouse & Goldstone, archts. and engrs., 512 5th Ave., having plans prepared 11 story, 100 x 109 ft., brick, steel and stone, plain foundation, 27-37 West 60th St. $50,000.

N. Y., Owego—School—Bd. Educ. soon takes bids 3 story, 150 x 200 ft., brick, steel and stone, plain foundation. $275,000. Coffin & Coffin, 522 5th Ave., New York, archts. and engrs. Noted April 6.

N. Y., Rochester—Apartment—A. B. Headley (owner and archt.), 4 Church St., plans apartment, East Ave. $250,000.

N. J., Newark—School—Bd. Educ., Broad St., soon takes bids brick, steel and stone, plain foundation, Hawkins St. $235,000. Private plans.

N. J., Paterson — Hospital — Paterson Genl. Hospital having sketches made by Crow, Lewis & Wick, archts. and engrs., 200 5th Ave., New York City, 4 story, brick, steel and stone addition, plain foundation, Market St, $400,000.

Pa., Johnstown — Hospital — Conemaugh Valley Memorial Hospital, plans 3 story and basement, 100 x 120 ft. brick and steel, Franklin St. $150,000. Architect not selected.

Pa., Oakmont—Apartment and Store—Deaveshall Co., soon takes bids 3 story and basement, 80 x 118 ft. brick, steel and stone, plain foundation. $175,000. H. L. Reinhold, Jr., Otis Bldg., Phila., archt.

Pa., Phila. — Apartment — Neubauer & Supowitz, archts., 929 Chestnut St., soon takes bids 4 story, 90 x 108 ft. brick and steel, plain foundation, 48th and Walnut Sts. $200,000. Owner's name withheld.

Pa., Phila.—Office and Store—Mastbaum Bros. & Fletcher, 15th and Chestnut Sts., soon takes bids 12 story, 102 x 188 ft. brick, steel and stone, plain foundation, 21st and Market Sts. $1,000,000. Hoffman-Henon Co., Finance Bldg., archts.

Pa., Phila.—Sales, etc.—J. J. Greenberg, c/o Nash Motor Co., 901 North Broad St., plans 5 story, 75 x 160 ft. rein.-con., brick and stone, plain foundation, Broad and Thompson Sts. $250,000. P. S. Tyre, 1509 Arch St., archt.

Pa., Phila.—Store and Office—E. L. Rothchild, archt., 1420 Chestnut St., soon takes bids 3 story and basement, 23 x 105 ft. brick and steel, plain foundation, 1122 Walnut Ave. $175,000. Owner's name withheld.

Del., Claymont—High School—Dept. of Educ. having plans prepared by Coffin & Coffin, archts. and engrs., 522 5th Ave., New York City, 2 story, 80 x 280 ft., brick, steel and stone, plain foundation. $275,000.

Md., Baltimore — Apartment — Joint Ownership Constr. Co., 323 North Charles St., having plans prepared by R. G. Pratt, archt., 323 North Charles St., 3½ story, 53 x 80 ft., brick and stucco, plain foundation, Charles St. $150,000.

Md., Westport (Baltimore P. O.)—School—School Bd., 1310 Madison Ave., Baltimore, having plans prepared by B. Frank, archt., 328 North Charles St., Baltimore, 4 story and sub-basement, rein.-con. and brick, plain foundation, Navada and 1st Sts., here. $300,000. J. Posey, 11 East Pleasant St., Baltimore, engr.

D. C., Wash.—Auditorium—Calvary Baptist Church, 8th and H Sts., N. W., plans 95 x 130 ft., stone. $4,000,000. A. B. Heaton, Maryland Bldg., archt.

D. C., Wash.—Convention Hall—Convention Hall Assn. having plans prepared by Milburn Heister Co., archts., 710 14th St. N. W., for convention hall. $375,000.

West Virginia—Home—Grand Lodge, Knights of Pythias, c/o H. R. Bell, 213½ North Huron St., Wheeling, plan 4 story. Location not decided. Architect not selected.

Ga., Atlanta—College—Georgia School of Technology having plans prepared by Robert & Co., archts. and engrs., Tuft Bldg., new chemistry building, $250,000; commerce and architecture building, $150,000; quardrangle dormitories, each of 4 buildings to provide restaurants and living quarters for 150 students, $500,000; auditorium, 3,000 seating capacity, $300,000; gymnasium, $225,000; also plans to expend $75,000 for additional real estate to add to campus, the rearrangement of the campus, establishment of new light areas and general remodeling of existing buildings.

Fla., Orlando—Hotel—M. Overstreet, J. L. Giles, et al., having plans prepared by E. Krug, archt., Orlando, 100 room hotel, stucco, adjoining country club. $300,000.

Fla., Sarasota—Hotel—Stock Co. promoted by Chamber of Commerce, W. B. Towles, 935 Argyle St., Chicago, et al, having plans prepared by W. C. Kraig, archt., Sarasota, and Chicago, (street address not available), 4 story, 150 x 170 ft., rein.-con. and steel. $1,000,000.

Fla., Tavares—Court House—Lake Co. plans court house. $175,000. G. E. Heller, co. engr.

O., Arcadia—School—Bd. Educ. having plans prepared by T. McLaughlin, archt., Savings Bldg., Lima, 2 story and basement, brick and concrete. $150,000. H. I. Bricker, clk.

O., Athens — Gymnasium — Bd. Trustees Ohio University, having plans prepared by F. L. Packard, archt., New Hayden Bldg., Columbus, 3 story and basement, brick, stone and concrete, on campus. $200,000.

O., Cincinnati—Clubhouse—Queen City Club, c/o James Gamble Rogers, archt. and engr., 367 Lexington Ave., New York City, having sketches made brick, steel and stone, plain foundation, 4th St. and Bway., here. $350,000. H. A. Worchester, chn. building com.

O., Cleveland—Commercial—Ninety-Nine Year Lease Co., c/o T. H. McKee, 409 Swetland Bldg., plans 3 or 4 story, brick, steel and concrete, southwest corner Chester Ave. and Dodge Court. $150,000. Architect's name withheld.

O., Cleveland — Store and Office — H. Guenther and D. R. Davies, 1733 Euclid Ave., having plans prepared by W. S. Ferguson Co., archts., 1900 Euclid Ave., 12 story, 50 x 189 ft., brick, steel and concrete, 1510 Euclid Ave. $500,000. Only 2 stores will be built at present.

O., Cleveland—Theatre and Office — W. Fox Corp., c/o W. R. Sheehan, genl. mgr., 10th Ave. and 55th St., New York City, having plans prepared by T. W. Lamb, archt., 644 8th Ave., New York City, 16 story, brick, steel and concrete, Euclid Ave., here. $2,000,000.

O., Columbus Grove—High School—Bd. Educ. having plans prepared by T. McLaughlin, archt., Savings Bldg., Lima, 2 story and basement, brick and concrete. $150,000.

O., Elyria—Club—Loyal Order of Moose, plans modern fireproof clubhouse, 2nd St. $150,000. Architect not announced.

O., Lorain—High Schools—Bd. Educ. having plans prepared by F. C. Warner, archt., Hoppodrome Annex, Cleveland, 2 story, brick, steel and concrete addition, East 31st St. and Seneca Ave., $150,000; brick, steel and concrete addition, East 20th St. and Oakdale Ave. Noted Nov. 3.

O., Massillon—High School—Bd. Educ. having plans prepared by Albrecht, Wilhelm & Kelley, archts., 1836 Euclid Ave., 2 story, brick, steel and concrete. $250,000.

Mich., Detroit—Church—Lady of Rosary Church, Woodward and Medbury Aves., having plans prepared by J. Finn & Sons Co., archts., 7720 Plymouth Rd., 2 story, 90 x 120 ft. brick, steel and stone, plain foundation, Woodward and Medbury Aves. $150,000.

Ill., Chicago—Club—B. P. O. E. Building Comn., 50 East 42nd St., New York City, having plans prepared by C. Swartout, archt. and engr., 18 West 44th St., New York City, for brick, steel and stone memorial club, plain foundation, Lake View Ave., near Diversey Parkway, here. $3,000,000.

Wis., Appleton — High Schools — Bd. Educ., receiving sketches two 4 story, 75 x 190 ft. junior high schools, rein.-con., brick and steel, plain foundations. $500,000. E. L. Williams, clk. Architect not selected.

Ia., Des Moines—Office—Equitable Insurance Co. of Iowa, Bankers Trust Bldg., soon receives bids 18 story, 132 x 133 ft., rein.-con., brick, steel, stone and tile, 6th and Locust Sts. $2,000,000. Proudfoot, Bird & Rawson, 810 Hubbell Bldg., archts.

Minn., Minneapolis—Institution—Bethany Home, 3719 Bryant Ave. S., had plans prepared by A. R. Van Dyck, archt., 819 1st Natl.-Soo Line Bldg., 3 story and basement, 143 x 162 ft., rein.-con., brick and tile, 3719 Bryant Ave. S. Soon takes bids on 1st unit of superstructure. Major part of foundation contract let to Madsen Constr. Co., 848 Builders Exch., $6,000. Remainder to be let later. Total $175,000.

Minn., Winona—Schools—Bd. Educ. plans several rein.-con. buildings. $1,000,000. A. H. Kressin, clk. Croft & Boerner, 1006 Marquette Ave., Minneapolis, archts.

Mo., Kansas City—Elephant House—City Park Bd., City Hall, having plans prepared by Wright & Wright, archts., 4th Natl. Bank Bldg., 80 x 100 ft., rein.-con. brick and steel.

Mo., Kansas City—Memorial—Liberty Memorial Assn. having plans prepared by H. V. B. Magonigle, archt., 101 Park Ave., New York City, for memorial building. (Union Station Plaza). $2,000,000.

Tex., Ft. Worth — Home — Masonic Orphans' Home having plans prepared by H. M. Greene Co., archts., N. Texas Bldg., Dallas, 2 story and basement, 50 x 150 ft. $150,000.

Tex., Ft. Worth—Hospital—Bd. Trustees Methodist Hospital having plans prepared by Clarkson & Gaines, archts., 1st Natl. Bank Bldg., 5 story, containing 400 beds. $1,000,000.

Tex., Houston—Club—Knights of Columbus, Crawford St., having plans prepared by M. J. Sullivan, archt., Carter Bldg., 4 story, 75 x 150 ft., rein.-con. and steel, plain foundation. $200,000.

Okla., Tulsa—Mercantile—Jacobs Mercantile Co., 106 Detroit St., plans building, 106 South Detroit St. $300,000-$500,000. Architect not selected.

Wash., Kelso—Theatre, School, Church, etc.—Long Bell Lumber Co., 14th and Kenwood Sts., Kansas City, Mo., having plans prepared by F. E. McIlvain, archt., 1001 Orear Leslie Bldg., Kansas City, Mo., general store, moving picture theatre, school, church, hospital, Y. M. C. A. building, city hall and residences, also light and water plants, near here.

Calif., Bakersfield—Hospital—Kern Co. soon takes bids group of buildings for hospital, brick, stone and terra cotta. To exceed $150,000. C. H. Biggar, 1st Natl. Bank Bldg., archt. Noted Feb. 2.

Calif., Berkeley—Church—Trinity Methodist Church, c/o G. Rushforth, archt., 354 Pine St., San Francisco, having preliminary plans prepared church, Durant Ave. and Bancroft Way. $250,000.

Calif., Chico—Bank and Office—First National Bank, having plans prepared by C. Cole, archt., Waterland-Breslauer Bldg., 4 story, 3rd and Main Sts.

Calif., Colusa — Hospital — Colusa Co. plans election in November to vote on $150,000 bonds for hospital. Architect not selected.

Calif., Crockett—School—Crockett School Dist. plans election to vote on $250,000 bonds for school.

Calif., San Francisco—Apartments—C. Grillo (Standard Investment Co.), 948 Market St., having plans prepared by W. Beasley, archt., 948 Market St., 6 story and basement, rein.-con., Eddy St. near Hyde St.; three 6 story and basement, rein.-con., Northwest Eddy and Hyde Sts.; three 6 story and basement, rein.-con., O'Farrell St. between Hyde and Polk Sts.

Calif., San Francisco—Apartment—J. E. Levin, 1507 Folsom St., San Francisco, and S. Levin, New York, having plans prepared by C. A. Meussdorffer, archt., Humboldt Bank Bldg., 9 story and basement, rein.-con., Northwest Jackson and Laguna Sts. $200,000.

Buildings (Continued)

Que., Montreal—City Hall—City soon takes bids 5 story building incl. garage, to replace one destroyed by fire. $1,000,000. L. Parent, city archt. Viau & Venne, 76 St. Gabriel Ave., D. J. Spence, 246 Beaver Hall Hill, and Amos, Carmier & Marchand, Montreal, (street address not available), all consult. archts.

Ont., Sudbury—Theatre—Regent Theatre Ltd., had plans prepared by Hall & Duerr, archts., Lumsden Bldg., Toronto, 2 story and basement, 50 x 120 ft., concrete, brick and steel. $150,000.

B. C., Vancouver—Store—Woodward Department Stores Ltd., Hastings and Abbott Sts., takes bids about January, 6 story and basement, 86 x 132 ft., 75 ft. high, brick, steel and tile, Hastings St. near Abbott St. $200,000. W. T. Whiteway, 207 Hastings St. W., archt.

BIDS DESIRED

Conn., Bridgeport—E. B. Caldwell, Jr., archt., 886 Main St., taking bids 4 story, 55 x 120 ft. brick and concrete, plain foundation, Park Ave., for Y. W. C. A., 263 Golden Hill St. $150,000. Noted June 1.

N. Y., New York—Apartment—F. F. French Co., 299 Madison Ave., 14 story, 50 x 80 ft., brick, steel and stone, plain foundation, Park Ave. $750,000. Work will be done by separate contracts.

N. J., Cinnaminson—School—Sept. 25, by Bd. Educ., Westfield P. S. Bldg. at intersection of Moorestown-Riverton Rd. and Pomona Rd. for addition to Westfield P. S. J. F. Street, 129 South 5th St., Phila., archt.; adv. this issue.

N. J., West Orange—School—Sept. 25, by Bd. Educ., brick, steel and stone, plain foundation. $350,000. Guilbert & Bettelle, 548 Broad St., Newark, archts. and engrs.

Pa., Altoona—School—Oct. 16, by School Dist., 3 story and basement, 224 x 232 ft. fireproof. J. Millard, Altoona, archt.; adv. this issue. Noted Aug. 10.

Pa., Germantown (Phila. P. O.)—B. F. Betts, archt., Land Title Bldg., Phila., taking bids 2 story, 50 x 90 ft. brick, steel and stone, plain foundation, Germantown Ave. and Haines St., for Y. M. C. A., Germantown Ave. and Haines St. $150,000.

Pa., Phila. — Bank — Wayne Junction Trust Co., c/o A. Scanlon, taking bids 3 story, 40 x 110 ft. brick, steel and stone, plain foundation, Germantown Ave. and Robets St. $200,000. Simon, Brittain & English, 336 4th Ave., Pittsburgh, archts.

Pa., Vandergrift—Sept. 30, by Bd. Educ., 2 story and basement, brick and stone addition. $155,000. W. G. Eckles, New Castle, archt. Noted Aug. 10.

Md., Baltimore—Apartment—Oct. 10, by R. G. Pratt, archt., 323 North Charles St., 3 story, 59 x 69 ft. rein.-con. and brick, plain foundation, North Charles St., for Joint Ownership Constr. Co., 323 North Charles St. $175,000.

Md., Baltimore — Memorial — State of Maryland and City of Baltimore taking bids and open same about Oct. 15, 102 x 118 ft., rein.-con. and Indiana marble, plain foundation, Gay and Fallsway Sts. $900,000. E. B. Lee, Rockville, chn. State Memorial Com. and H. C. Jones, Chamber of Commerce Bldg., chn. City Memorial Com. L. H. Fowler, 347 Uorth Charles St., archt.

O., Lima—Store—Sept. 22, by Hoover & Bond Co., 18 Pub. Sq., 4 story, 42 x 105 ft., brick, concrete and terra cotta, Main St. $150,000. P. Hulsken, 216 West Market St., archt.

Mich., Detroit—School—Sept. 28, by Bd. Educ., 2 story and basement, 24 ft. high, 58 x 182 ft. and 67 x 181 ft. rein.-con., brick and steel, plain foundation, Duboise and Waterloo Sts., $250,000. Malcomson, Higginbotham & Palmer, 405 Moffat Bldg., archts.

Tenn., Memphis — Temple and Office — Jones & Furbringer, Porter Bldg., and Hanker & Cairns, Madison Ave. Bldg., associated archts., taking bids 11 story, steel, concrete, brick and tile, Monroe and South Front Sts., for Al Chymia Temple Mystic

Wis., Milwaukee—Business—M. Tullgren & Sons, archts., 425 East Water St., taking bids and opens same about Sept. 26, 3 story, 70 x 150 ft., brick and concrete addition, for C. Niss & Sons, 697 3rd St. $150,000. Noted Aug. 17.

Wis., Racine—Vocational School—Oct. 17, by Bd. of Industrial Educ., 3 story and basement, 54 ft. high, 185 x 220 ft., brick, tile and concrete, plain foundation. $200,000. J. M. Matson, 533 Baker Blk., archt.

Ia., Bloomfield—School—Oct. 1, by Bd. Educ., 2 story and basement, rein.-con., brick and tile. $150,000. R. C. Bristow, clk. W. Gordon, 319 Hubbell Bldg., Des Moines, archt.

Ia., Des Moines—Schools—Sept. 29 by Bd. Educ., for Wallace School, East 30th and Cleveland Sts., $80,000; Elmwood School, 31st and Brattleboro Sts., $80,000; Monroe School, 30th and Hickman Sts., $40,000; Adams School, East 29th and Douglas Sts., $40,000; all 2 story and basement, brick and concrete. Proudfoot, Bird & Rawson, 810 Hubbell Bldg., archts.

N. D., Jamestown—Sept. 29, by State Bd. Administration, Bismarck, 3 story and basement, rein.-con., brick, stone and tile, at state hospital for insane, here. $200,000. Keith & Kurke, Equity Bldg., Fargo, archts.

Calif., Santa Rosa—School—Sept. 25, by Trustees Santa Rosa Grammar School Dist., rein.-con. school. $150,000. W. H. Weeks, 369 Pine St., San Francisco, archt. Noted June 22.

Calif., Selma—Science—Oct. 10, by Trustees Selma High School Dist., 3 story, 145 x 151 ft., rein.-con. N. F. Marsh, Broadway Central Bldg., Los Angeles, archt.

BIDS RECEIVED

Del., Smyrna—High School—For 1 and 2 story, 80 x 150 ft., rein.-con. and brick, plain foundation, from A. L. Hudson, Smyrna. $157,800; J. T. Ryan, Smyrna, $257,937.

O., West Carrollton—School—Bd. Educ. opened bids Sept. 5, 2 story, rein.-con. and brick, from H. R. Blagg Co., 1229 East 3rd St., Dayton, $119,890; J. Lowes, Inc., 509 West 2nd St., Dayton, $123,000; N. S. Hogankamp, Minster, $127,200.

CONTRACTS AWARDED

N. Y., Avoca—High School—Bd. Educ., 330 x 380 ft., brick, steel and stone, plain foundation, to L. Dennison, 162 North Main St., Hornell. Archts. est. $350,000.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York, P. S. 16, Wilson St. near Bedford Ave., here, to C. Meads Co., 217 West 14th St., New York, $174,100. Noted Sept. 7.

N. Y., Buffalo—School—Bd. Educ., 1401 Telephone Bldg., general contract School 69, 3 story, 175 x 250 ft., rein.-con., brick and tile, Clinton St., to Tifft Constr. Co., Iroquois Bldg., $336,651; heating and ventilating work, to R. J. Moran, 379 East Utica St., $61,645. Noted Aug. 31.

PAVING—AKRON, OHIO

Bids were opened Sept. 6, by M. P. Tucker, dir. Pub. Serv., for grading and paving North Main St. from York St. to Cuyahoga Falls Ave., (A) T. E. McShaffrey Constr. Co., 171 South Forge St.; (B) Engineer's Estimate; (C) Columbus Asphalt Paving Co., Buckeye Bldg. The unit bids were as follows:

	A	B	C
7,500 cu.yd. grading	$0.70	$0.90	$1.00
5,500 lin.ft. under drains, 4-in. pipe	.05	.15	.17
500 lin.ft. grains, 12-in. pipe	1.25	1.20	1.50
1 sewer lateral with wye	35.00	40.00	50.00
44 sewer laterals without wye	35.00	40.00	48.00
14 manholes readjusted	5.00	10.00	2.00
16 inlets pl. I	25.00	40.00	40.00
5 cu.yd. concrete Cl. II	10.00	10.00	15.00
2,525 lin.ft. sandstone curb hand dressed	1.40	1.40	1.50
20 lin.ft. sandstone circular curb	2.00	2.25	2.50
600 lin.ft. granite circular curb	3.50	3.50	3.50
2,400 lin.ft. sandstone curb redressed	.25	.25	.50
2,400 lin.ft. curb reset	.35	.50	.75
100 lin.ft. stone headers	1.00	1.00	1.25
12,100 sq.yd. concrete base 6-in. thick	1.45	1.35	1.45
12,100 sq.yd. concrete base, 7-in. thick	1.70	1.60	1.65
12,100 sq.yd. concrete base, 8-in. thick	1.90	1.85	2.00
12,100 sq.yd. standard brick pavement cement fill	2.25	2.10	2.25
12,100 sq.yd. standard brick pavement, asphalt	2.35	2.50	2.50
1,400 sq.yd. standard brick pavement, gutter cement fill	2.30	2.20	2.40
4,400 sq.yd. standard brick pavement, inside car tanks cement fill	2.25	2.40	2.35
4,400 sq.yd. standard brick pavement, inside car tanks, asphalt fill	2.25	2.50	2.50
620 sq.yd. granite block pavement, cement fill	5.25	5.00	5.85
620 sq.yd. granite block pavement, asphalt fill	5.25	5.20	6.00
10,700 sq.yd. sheet asphalt pavement "Pl. B" Trinidad	1.95	2.00	1.90
10,700 sq.yd. sheet asphalt pavement, Pl. "B", Texaco	1.80	1.80	1.75
10,700 sq.yd. sheet asphalt pavement, Pl. "B" Mexican		1.80	1.70
10,700 sq.yd. bitulithic pavement	1.90	2.00	2.00
50 sq.yd. brick pavement relaid	1.00	1.75	2.50
26,100 sq.ft. cement walks	.19	.20	.20
5,400 sq.ft. cement driveways	.27	.26	.30
100 sq.ft. cement walks relaid	.15	.15	.20
1,000 lb. reinforcing steel	.05	.06	.05
5 concrete monuments	10.00	15.00	15.00
9 street signs acc. 5,570	25.00	20.00	25.00
130 shade trees	7.00	10.00	7.00
11,200 lin.ft. rails prepared with mortar	.10	.10	.15
11,200 lin.ft. rails prepared with bituminous strip	.15	.15	.20
1,400 lin.ft. 4-in. W. I. pipe drains	.75	.65	.60
350 lin.ft. 3¼-in. fibre conduit	.75	.70	1.00
Cement is omitted from cushion deduct (per sq.yd.)	.10	.10	.05
Cinder base is omitted, deduct (per sq.ft.)	.02	.03	.02
Extended totals standard brick pavement cement fill, 6-in. base	$83,535	$84,407	$91,005
Extended totals standard brick pavement, asphalt fill, 6-in. base	84,140	86,181	93,573
Extended totals sheet asphalt pavement, pl. "B" Trinidad, 6-in. base	*80,465	84,461	88,363
Extended totals sheet asphalt pavement, pl. "B" Texaco, 6-in. base	78,860	82,321	86,758
Extended totals sheet asphalt pavement, pl. "B" Mexican, 6-in. base		82,321	86,223
Extended totals bitulithic pavement, 6-in. base	$79,930	84,461	89,438

* Awarded contract.

N. Y., Johnson City—Church and Parish House—All Saints Episcopal Church, brick, steel and stone, plain foundation, Main St., to Dillon & Wiley, 103 Park Ave., New York. Archts. est. $200,000. Noted April 6.

N. Y., New York—Apartment—Estate of G. F. Johnson, 30 East 42nd St., 5 story, brick, steel and stone, plain foundation, Fox St., by day labor. $175,000. C. Kreymborg, 2534 Marion Ave., archt. and engr.

N. Y., New York—Apartment—Jatison Constr. Co., c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., 9 story, 84 x 100 ft., brick, steel and stone, plain foundation, 146-152 West 55th St., by day labor. $600,000.

N. Y., New York — Exchange — Attica Film Corp., 484 5th Ave., 2 story, brick, steel and stone, plain foundation, 331 West 44th St., to Thompson-Starrett Co., 49 Wall St. Archts. est. $250,000.

N. Y., New York—Hotel—Empire Hotel, Columbus Ave. and 73rd St., 12 story, 115 x 130 ft., brick, steel and stone, plain foundation, to Empire Contg. Organization, Inc., 130 West 42nd St. Archts. est. $750,000.

N. Y., New York—Loft—C. Glazer, c/o Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., 9 story, 70 x 85 ft., brick, steel and stone, plain foundation, West 26th St., by day labor. $350,000.

N. Y., New York—School—Bd. Educ., 500 Park Ave., P. S. 64, brick, steel and stone, Walton Ave. and East 171st St., to T. Dwyer, Bway. and 216th St., $624,000. Archts. est. $500,000. Noted Sept. 7.

N. J., Trenton—Bank—Broad St. Natl. Bank, 8 story, 50 x 118 ft. brick and steel addition, Montgomery St., to Karno-Smith Co., Broad St. Bank, $400,000.

Pa., Erie—High School—Bd. Educ., 2 story and basement, 200 x 304 ft., brick and stone, 23rd and Cascade Sts., general contract to H. J. Conrath, Ariel Bldg.; plumbing to Barnes & Clarke, New Castle. Archts. total est. $450,000. Noted July 13.

Pa., Phila. — Academy — Academy of Sacred Heart, 3 story, 42 x 174 ft. with 39 x 51 ft., 59 x 92 ft. and 42 x 89 ft. wings, City line and Haverford Aves., to Doyle & Co., 1519 Sansom St. Archts. est. $500,000.

Pa., Phila. — Church — St. Aloysius Roman Catholic Church, 1 story and basement, 63 x 116 ft. rein.-con., brick and stone, plain foundation, 26th and Tasker

Buildings (Continued)

Sts., to E. Fay & Co., 2 South Mole St., $150,000.

Pa., Phila.—Office—A. M. Greenfield, 15th and Chestnut Sts., 20 story, 79 x 138 ft., 15th and Chestnut Sts., to F. W. Mark Constr. Co., Commercial Trust Bldg., $1,250,000.

Pa., Phila.—Office—Middle City Realty Co., Walnut and Juniper Sts., 17 story and basement, 53 x 230 ft., Walnut and Juniper Sts., to F. W. Mark Constr. Co., Commercial Trust Bldg., $1,000,000.

Pa., Phila.—Office and Sales—T. B. Gibbs, c/o Carson & Carson, archts., 1620 15th St., 10 story, 19 x 104 ft., rein.-con. and brick, to Hughes-Foulkrod Co., Commonwealth Bldg., $575,000.

Pa., Phila.—Recreation—Bureau Recreation, City Hall, 1 and 2 story, 48 x 275 ft. rein.-con., brick and steel, recreation center, plain foundation, 52nd St. and Sedgley Ave., to Robbins Constr. Co., 1137 North Front St., $170,000.

Pa., Phila.—School—Bd. Educ., 2 story, 113 x 134 ft., brick and steel, plain foundation, Palmetto and Bleigh Sts., to Kober Constr. Co., 34 South 17th St., $246,777. Noted Sept. 14.

Pa., Phila.—Magaziner & Eberhard, archts., 603 Chestnut St., 5 story, 72 x 81 ft. brick and steel, plain foundation, Cherry and Lambert Sts., to W. R. Dougherty & Co., 1610 Sansom St., for Y. M. C. A., 18th and Arch Sts. Archts. est. $200,000. Noted Aug. 17.

Va., Winchester—School—Bd. Trustees, 1 story, 197 x 551 ft., brick, concrete and steel incl. auditorium to seat 2,000, to J. L. Crouse, Greensboro, N. C., $1,000,000.

Fla., Ft. Pierce—Theatre and Store—R. N. Koblegard, Woodward Bldg., Wash., D. C., and Ft. Pierce, theatre and store, 34 ft. high, rein.-con. and steel, Pine St., to C. E. Cahon, Ft. Pierce. Archts. est. Archts. est. $150,000

Fla., Miami—Cathedral—Scottish Rite Masons, 140 x 190 ft., rein.-con. and steel, Northwest 3rd St. and North River Dr., to J. B. Orr, Miami, cost plus percentage basis. Archts. est. $200,000.

O., Warrensville—School—Bd. Educ. of Orange Rural School Dist., 2 story, brick, steel and concrete Orange Twp., to Parrish Bros., Wick Ave., Youngstown. $153,416. Noted Sept. 1.

O., Willoughby—Domestic Science—Andrews Institute for Girls, 2 story, 60 x 200 ft., brick, steel and concrete, to Johnson & Erickson, Ashtabula. Archts. est. $200,000. Noted July 20

Wis., Milwaukee—Apartment Hotel—Hotel Investors, Inc., 330 Caswell Blk., 3 story and basement, 50 ft. high, 2 units each 50 x 110 ft., brick and concrete, plain foundations, to Brun Constr. Co., 387 Clinton St. Engrs. est. $250,000.

Minn., Minneapolis—Apartment Hotel—J. Friedman, 1900 Emerson Ave. S., 13 story and basement, 50 x 100 ft., 150 ft. high, with 3 wings, each 6 story, 75 high, total dimensions 125 x 326 ft., rein.-con., brick and tile, Mt. Curve and Douglas Aves., to Fleisher Constr. Co., 1000 Builders Exchange. Archts. est. $1,500,000.

Calif., Kerman—High School—Kerman Union High School Dist., general contract 2 story, rein.-con., to J. H. Palm, c/o A. Johnson, archt., Kingsburg Bank Bldg., Kingsburg, $144,800. Noted Sept. 14.

Que., Montreal—School—Catholic School Comrs., 191 Stadacona St., 3 story, 75 x 130 ft., 25 ft. high, rein.-con., brick and stone, St. Joseph Blvd., to A. and D. Boileau, 546 Fabre St. $150,000. Noted Sept. 14.

Federal Government Work

PROPOSED WORK

La., New Orleans—Dykes—U. S. Engineer, Custom House, rejected bids for dykes at Head of Pass, Mississippi River. Noted Aug. 3.

Miss., Gulfport—Hospital—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids for U. S. Veterans Hospital, here. Noted Sept. 14.

O., Chillicothe—Hospital—Quartermaster General, Munitions Bldg., Wash., D. C., soon receives bids for group of 20 rein.-con. and brick buildings, complete, incl. sewer, water and lighting systems, roads and walks, for U. S. Veterans Hospital, at Camp Sherman, here. Noted Sept. 7.

Minn., St. Cloud—Hospital—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans U. S. Veterans Hospital, here.

Nevada—Road—C. H. Sweetser, dist. engr., U. S. Bureau Pub. Rds., 881 Mills Bldg., San Francisco, Calif., received no bids grading and building structures on 14.6 mi. Currant Creek Rd. in Nevada Natl. Forest. Will probably be readvertised. Noted Sept. 7 under California.

BIDS DESIRED

N. Y., Staten Island—Power Boats—Sept. 25, by Superintendent Lighthouses, 6 power boats, 24 ft., complete with engines.

N. Y. Staten Island—Steel Buoys, etc.—Oct. 2, by Superintendent Lighthouses, for 105 various size steel buoys, 21 with bells and 2 with whistles.

N. Y., Tupper Lake—Hospital—Spec. 4710—Oct. 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., 8 buildings for U. S. Veterans Hospital, here.

Md., Edgewood—Quarters—Oct. 18 at office Constructing Quartermaster, Aberdeen Proving Ground, for 20 sets officers quarters; adv. this issue.

Md., Edgewood Arsenal—Stables—Sept. 30 at Office Constructing Quartermaster, Aberdeen Proving Ground, 20 stable buildings here; adv. this issue.

D. C., Wash.—Cement—Oct. 7 at office A. L. Flint, genl. purch. agt., Panama Canal, Wash., D. C., for furnishing 10,000 bbl. portland cement, Circular No. 1497.

La., New Orleans—Spur-dikes—Oct. 3 at Office U. S. Engineer, 329 Custom House, spur-dikes at Southwest Pass, Mississippi River; adv. this issue.

Tenn., Nashville—Dump Scows—Oct. 23, Office U. S. Engineer, 3 steel dump scows; adv. this issue. Noted Sept. 14.

Calif., Mare Island—Remodeling—Spec. 4601—Oct. 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., remodeling Barracks Building 53, here. Noted Sept. 7.

Calif., San Diego—Quarters, etc.—Spec. 4665—Oct. 11, by Burau Yards & Docks, Navy Dept., Wash., D. C., for quarters and mess hall at Naval Training Section, here.

BIDS RECEIVED

Mass., Northampton—Hospital—Quartermaster General, 2306 Munitions Bldg., Wash., D. C., for group of buildings for U. S. Veterans' Hospital, here, (1) work complete, from G. A. Fuller Co., Munsey Bldg., Wash., D. C., (1) $2,995,000, (2) $43,000, (3) $30,009, (4) $1,000, (5) $4,700, (6) $35,000, (7) $1.50, (8) $10.25, (9) $18, (10) $74, (11) $100, (12) $53, (13) $0.50, (14) $2.90, (15) $1, (16) $1.66, (17) 625 days; J. Stewart & Co., 30 Church St., New York City, (1) $3,161,000, (2) $42,500, (3) $26,000, (4) $1,500, (5) $6,300, (6) $35,000, (7) $1.50, (8) $21, (9) $32, (10) $70, (11) $90, (12 $60, (13) $1.30, (14) $2.80, (15) $1.90, (16) $2.70, (17) 425 days; Pontiac Constr. Co., 206 Lincoln Bldg., Detroit, Mich., (1) $3,550,000, (2) $34,753, (3) $28,550, (4) $2,500, (5) $4,250, (6) $21,642, (7) $2.90, (8) $21.20, (9) $37.42, (10) $68, (11) $100, (12) $55, (13) $0.78, (14) $4.05, (15) $1.70, (16) $2.70, (17) 485 days. Noted Aug. 24.

CONTRACTS AWARDED

R. I., Providence—Dredging—Office U. S. Engineer, dredging in harbor at Bridgeport, Conn., to P. Sandford Ross Bros., 277 Washington St., Jersey City, N. J., $42,382. Noted Sept. 7.

R. I., Providence—Dredging—Office U. S. Engineer, dredging in Pawtucket (Seekonk) River, to J. S. Packard Dredging Co., 1004 Turks Head Bldg., $61,803. Noted Aug. 10.

N. Y., Buffalo—Buildings—Office U. S. Engineer, constructing 8 buildings, to Mosier & Sumners, Inc., 1266 Seneca St., Buffalo, $152,984.

N. Y., New York—Dredging—U. S. Engineer, 710 Army Bldg., 39 Whitehall Bldg., dredging in Hudson River, to Central Dredging Co., Bangor Bldg., Cleveland, O., $164,586. Noted Aug. 3.

N. Y., New York—Dredging—Office U. S. Engineer, 1st Dist., dredging Compton Creek and Shoal Harbor, New Jersey, to J. P. Randerson, 51 State St., Albany, $10,780.

Del., Wilmington—Excavation—U. S. Engineer, Wilmington, excavating Inland Waterway from Delaware River to Chesapeake Bay, Del. and Md., 5,600,000 cu.yd. excav., to W. H. Gahagan, Inc., 147 Remsen St., Brooklyn, N. Y., $1,455,856. Noted Aug. 24.

Md., Baltimore—Dredging—Office U. S. Engineer, dredging in Baltimore Harbor and Channel, to Arundel Corp., 2 Pratt St., $272,250. Noted July 27.

D. C., Anacostia—Hangar—Spec. 4691—Bureau Yards & Docks, Navy Dept., Wash., D. C., hangar at Naval Air Station, here, to Donnell-Zane Co., Inc., 233 Bway., New York City, $42,605 (150 days). Noted Aug. 31.

D. C., Wash.—Cable—Chief of Engineers Office, rubber insulated lead covered and armored cable, to Amer. Steel & Wire Co., Wilkins Bldg., $70,147.

D. C., Wash.—Tunnel, Conduit, etc.—Public Printer, Government Printing office, for tunnel, pipe covering and electric wiring between Capitol power plant and Government Printing Office, to W. F. Cush, 3rd and R Sts., tunnel, $79,877; McKeesby & Madison, 623 F St., pipe covering $17,586; John A. Roeblings Sons Co., South Broad and Canal Sts., Trenton, N. J., electric wiring $20,850. Noted Aug. 24.

La., New Orleans—Bulkhead—U. S. Engineer, Custom House, bulkhead construction at Southwest Pass, to D. M. Picton & Co., Port Arthur, Tex., $250,633. Noted Aug. 3.

Miss., Vicksburg—Levee Work—Office U. S. Engineer, Lower Yazoo Levee Dist., to Roach, Stansell, Lawrence Bros. & Co., North Memphis Savings Bank Bldg., Memphis, Tenn., $14,000, and Elkas & Weathers, Erwin, $52,200; Upper Texas Levee Dist., to G. H. and W. T. Lawrence, Memphis, Tenn. (street address not available), $78,000.

Tenn., Memphis—Levee Work—Office U. S. Engineer levee work in 1st and 2nd Dists., to G. H. and W. T. Lawrence, Memphis (street address not available) $20,430, T. W. Roach, Memphis (street address not available) $63,700, Roach, Stansell, Lawrence Bros. & Co., North Memphis Savings Bank Bldg., $89,600.

La., New Orleans—Sand and Gravel—Office U. S. Engineer, 321 Customhouse, sand and gravel for Southwest Pass, Mississippi River, to R. P. Hyams Coal Co., Ltd., 339 Carondelet St., $37,000. Noted Aug. 10.

Minn., Duluth—Scow—Office U. S. Engineer, Duluth, steel derrick scow, to Marine Iron & Shipbuilding Co., foot of 11th Ave. W., $93,220. Noted July 20.

Calif., Mare Island—Circulating Loop—Spec. 4684—Bureau Yards & Docks, Navy Dept., Wash., D. C., circulating loop for central power plant at Navy Yard, here, to Tibbitts Pacific Co., 16 California St., San Francisco, $104,960 (200 days). Noted Sept. 7.

Calif., San Diego—Guardhouse, etc.—Spec. 4582—Bureau Yards & Docks, Navy Dept., Wash., D. C., guard house and shops at Marine Barracks, Naval Base, here, to W. E. Kier Constr. Co., 813 1st Natl. Bank Bldg., $146,176 (240 days). Noted Aug. 24.

Calif., San Francisco—Dredging—Office U. S. Engineer, dredging in Oakland Harbor, 1st Dist., to Amer. Dredging Co., 255 California St., $152,790.

Miscellaneous

PROPOSED WORK

Oil Tanks—Providence, R. I.—Narragansett Electric Lighting Co., Turks Head Bldg., plans concrete and steel fuel oil tank, 1,540,000 gal. capacity, Tallman Lane near Providence River. Private plans.

Athletic Arena—New Haven, Conn.—De Waltoff Co., 185 Church St., plans athletic arena. $125,000. Private plans.

Dumping Platform and Ramp, etc.—New York, N. Y.—J. H. Delaney, comr. Docks, Pier "A" foot of Battery Pl., rejected bids opened Sept. 1, superstructure on pier at East 35th St. consisting of rein.-con. dumping platform and ramp, Contr. 1773. Will readvertise. Noted Sept. 7.

Levee Work—Tallaluh, La.—Bd. Comrs. 5th Louisiana Levee Dist. sold $100,000 bonds for levee construction and maintenance work.

Freight Terminal—Indianapolis, Ind.—Illinois Central R.R., 135 East 11th Pl. Chicago, having plans prepared 2 story, 30 x 450 ft. freight terminal, brick and steel, also 3 flat loading platforms, 1 umbrella shed and 3 spurs. $200,000. W. Ward, Indianapolis, supervising agt. Private plans

Dock—Detroit, Mich.—Recreation Dept., 504 Elmwood Ave., having plans prepared 700 ft. concrete dock, 25 ft. wide, on 650 wood piles, rein.-con. stairways to landings for small boats, 24th St. and Detroit River. $50,000. Smith, Hinchman & Grylls, Marquette Bldg., engrs.

Paving Materials—St. Paul, Minn.—H. W. Austin, city purch. agt., rejected bids opened Aug. 28, paving materials for streets in Crocus Hill Dist., 43 blocks, 57,786 sq.yd. 3 in. creosoted wood blocks, 12,270 bbl. portland cement, etc. Noted Aug. 17.

Pipe Line—Miles City, Mont.—Northwestern Public Utilities Co. plans 10 in. pipe line from here into Glendive-Baker oil field. $1,500,000.

Miscellaneous (Continued)

Pipe Line—Walters, Okla.—Wichita Pipe Line Co. plans 22 mi. of 6 in. pipe line from here to Empire City, in Duncan oil field.

Shipping Platform — Oakland, Calif.—Chevrolet Motor Co., 3044 West Grand Blvd., Detroit, Mich., had plans prepared 99 x 500 ft. rein.-con. shipping platform, flat slab construction with frame covering, 50,000 sq.ft. rein.-con. floor supported on concrete piers, frame roof supported on posts 1 story high. $30,000. A. Kahn, 1000 Marquette Bldg., Detroit, Mich., engr.

Power Development—Hull, Que.—Hull Electric Ry. Co., (owned by Canadian Pacific Ry., Windsor St., Montreal), plans power development at Paugon Falls on Gatinsau, to develop 150,000 hp. to supply Ottawa and district. G. G. Gale, mgr.

BIDS DESIRED

Coal Handling Plant—New York, N. Y.—Sept. 29, by Bd. Health, 505 Pearl St., altering and erecting coal handling plant at Riverside Hospital, North Brother Island, Bronx Boro. R. S. Copeland, pres.

Asphalt Mixing Equipment—Pittsford, N. Y.—A. Howard, Fairport, taking bids for complete equipment for installation at asphalt mixing station, here.

Derrick—Phila., Pa.—Robinson Iron & Steel Co., Parker and Umbria Sts., taking bids stiff leg derrick, 40 ft. boom, 3 ton capacity.

Street Flusher—Phila., Pa.—See "Streets and Roads."

Gas Plant Equipment, etc.—Alexandria, La.—Oct. 2, by Comm. Council, furnishing 732 ton 4 in., 519 ton 6 in., 225 ton 8 in., 166 ton 10 in. bell and spigot c.i. gas pipe, 21 ton specials, 12¾ ton drip pots, 130 four in., 60 six in., 25 eight in. and 15 ten in. hub end gate valves, 350 service boxes, 55,000 lb. lead wool, 3,000 lb. untarred jute, 6,000 lin.ft. 4 in., 8,200 lin.ft. 6 in., 8,100 lin.ft. 8 in., 5,700 lin.ft. 10 in. and 4,600 lin. ft. 12 in. genuine w.i. pipe, plain ends, twenty 4 in., twenty 6 in., twelve 8 in., four 10 in. and ten 12 in. flanged gate valves and companion flanges D and F, pressure regulators, meters, etc., alternate prices will be considered on standard full weight steel pipe in lieu of wrought iron pipe, the 8, 10 and 12 in. weighing as follows: 28.55, 40.83 and 49.56, also laying 77,826 lin.ft. 4 in., 44,000 lin.ft. 6 in., 13,370 lin.ft. 8 in., and 6,826 lin.ft. 10 in. c.i. pipe, welding and laying 20,000 lin.ft. 2 in., 6,000 lin.ft. 4 in., 8,200 lin.ft. 6 in., 8,100 lin.ft. 8 in., 5,700 lin.ft. 10 in. and 4,600 lin.ft. 12 in. w.i. or steel pipe.

Cement—Turlock, Calif.—Sept. 29, by A. Sorenson, secy. Turlock Irrigation Dist., furnishing and delivering 50,000 to 75,000 bbl. portland cement, f.o.b. Don Pedro Dam, for Turlock and Modesto Irrigation Dists. Noted June 8.

Coal Handling Plant — Melbourne, Victoria, Australia—Dec. 18, by R. Liddelow, secy. State Electricity Comn. of Victoria, 22-32 William St., coal handling plant, for Morwell Power Scheme, Spec. 282; adv. this issue.

BIDS RECEIVED

Electrolier System—Dinuba, Calif.—City, electrolier system incl. 58,000 ft. 1½ Greenfield duct conduit and 58,000 ft. No. 8 Duplex lead covered cable, 395 electroliers Union metal standards, 395 No. 4 Novlaus tops form No. 12, two hundred and seventy-four 400 c.p. and one hundred and twenty 250 c.p. Mazda lamps, 395 risers in lamp columns, 6 open air conduit adapters, from Osborn Electric Co., Turlock, $63,924; Valley Electric Supply Co., 1817 Tulare St., Fresno, $64,200; H. C. Reid Co., 115 Mission St., San Francisco, $65,169. Noted June 8.

CONTRACTS AWARDED

Dumping Platform—New York, N. Y.—J. H. Delaney, comr. Docks, Pier "A" foot of Battery Pl., improving Brooklyn Bridge, Manhattan Boro, incl. rein.-con. dumping platform, to G. B. Spearin, 90 West St., $108,253; water supply, to Altman Plumbing Co., 219 East 25th St., $6,585. Noted Sept. 14.

Jetty—Asbury Park, N. J.—For 600 ft. stone jetty for protection of beach front, to J. A. Howland, Asbury Park (street address not available), $100,000. Noted July 13.

Levee Work — Louisiana — Bd. State Engrs., New Court Bldg., New Orleans, 950 ft. bulkhead at Gretna Levee, to W. M. Wren, Tulane Newcomb Bldg., New Orleans, $18 per ft.; 42,000 cu.yd. Row Levee, Point Coupee Parish, to J. T. Philips, Tenas, $4.50 per cu.yd.; 70,00 cu.yd. Elmwood Levee, to Lawrence, Nixon & Philips, Jackson, Miss., $26 per cu.yd.; 335,000 cu.yd. Eureka Levee, Atchafalaya Levee Dist., to D. B. Hearin, Baton Rouge, (street address not available), $39.75 per cu.yd.; 335,000 cu.yd. Live Oak Alliance Levee, Iberville Parish, to R. T. Clarke, Natchez, Miss., $42.50 per cu.yd.; 30,000 cu.yd. Belmont Levee, St. James Parish, to Lower Coast Constr. Co., 130 Chartres St., New Orleans, $59 per cu.yd.; 75,000 cu.yd. Vancluse Levee, Chicot Co., Ark., to Nicholson Constr. Co., Lake Providence, $38.33 per cu.yd.; 20,000 cu.yd. Belair China Grove Levee, to J. T. Philips, Tenas, $23.70 per cu.yd; 45,000 cu.yd. Grenada Levee, Iberville Parish, to Gueymard Bros., Carville, $35.50 per cu.yd.

Fish Hatchery—Alexandria, La.—Dept. Conservation, New Court Bldg., New Orleans, fish hatchery here, to Lambert Constr. Co., Alexandria, $35,000. Contractor in market for concrete also 3,200 lin.ft. 36 in., 430 lin.ft. 30 in. and 370 lin.ft. 27 in. concrete pipe, etc.

Levee Work—New Orleans, La.—Bd. State Engrs., New Court Bldg., 17,400 cu. yd. levee work on Lucca Landing, De Sota landing, Middle Place loop, and Panther Forest, to V. Tardy, Lake Village, Ark., $0.35 per cu.yd.; 43,000 cu.yd. on Seven Oaks, Florence, King Solomons Church, Hunting Lodge and Sterling levees, to W. H. Beard and C. L. Refe, Lake Village, Ark., $0.3491.

Foundation—Des Moines, Ia.—Equitable Inurance Co. of Iowa, Bankers Trust Bldg., foundation for 18 story and basement, 132 x 133 ft., rein.-con., brick, steel, tile and stone, office building, 6th and Locust Sts., to A. H. Neumann Co., 519 Hubbell Bldg., $109,800. Total cost $2,000,000. Noted Aug. 31.

Ornamental Lighting System—St. Paul, Minn.—Installing ornamental lighting system in Crocus Hill Dist., 424 single lights, each 100 candle power, to Donovan Constr. Co., Commerce Bldg., $49,409. Noted Aug. 24.

Piers—Montreal, Que.—Harbor Comrs., 300 ft. extension to Alexander Pier and 300 ft. to King Edward Pier, to Atlas Constr. Co., Belmont St., $295,250 and $314,700 respectively.

Engineering News-Record

(Circulation over 30,000 weekly)

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SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ADVERTISEMENTS ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE.

OFFICIAL PROPOSALS

Bids: Oct. 2.

Pavement, Curbing and Catch Basins

Noroton, Conn.

Sealed proposals for furnishing all labor and materials for the construction of proposed Drives, Curbing and Catch Basins and necessary drains to be constructed on the grounds of Fitch's Home for Soldiers and Soldiers' Hospital of Connecticut at Noroton Heights, Conn., will be received at the office of Col. Henry J. Seeley at the Soldiers' Home in Noroton until October 2, 1922, at 12:00 a.m. (D.S.T.).

The bids will be opened at the Governor's Office in the State Capitol at Hartford, on October 3rd, 1922, at 11:00 a.m. (D.S.T.).

The bids shall be in accordance with the plans and specifications for the work on file in the office of Col. Henry J. Seeley at the Soldiers' Home, where they may be obtained by bidders upon payment of $5.00, the same to be refunded when plans are returned in good condition.

The principal items of work consist of:
4,614 sq.yd. Penetration Pavement.
4,660 lin.ft. Concrete Curbing.
18 Catch Basins.

Each proposal shall contain the full name of every firm or corporation interested in the same and the address of the person or firm, or President or Secretary of the corporation bidding, and shall be accompanied by a certified check upon a national bank or trust company drawn to the order of The Soldiers' Hospital Board of Connecticut, in the sum of $650, which shall become the property of the State Hospital Board as liquidated damages in case the successful bidder fails to enter into a contract within five (5) days after the award of this contract as herein provided.

The checks of unsuccessful bidders will be returned upon demand and of the successful bidder upon completion of the work in a satisfactory manner, no bond being required.

All bids to be placed in a sealed envelope marked "Bids for Road and Curbing."

The Soldiers' Hospital Board reserves the right to reject any or all bids.

By order of
THE SOLDIERS' HOSPITAL BOARD
OF CONNECTICUT.
JOHN H. THACHER,
Chairman of Executive Committee.

Bids: Oct. 10.

Steam Turbine and Accessories

New Orleans, La.

Sealed proposals will be received by the Sewerage and Water Board of New Orleans up to 12 o'clock, noon, Tuesday, October 10th, 1922, for furnishing one 6,000 kw. STEAM turbine and accessories.

Specifications and blank forms of proposals may be obtained at Room 303, No. 526 Carondelet Street, New Orleans.

The right is reserved to reject any or all bids.

A. G. MOFFAT,
Secretary.
GEO. G. EARL,
General Superintendent.
Aug. 10, 1922.

OFFICIAL PROPOSALS

Bids: Oct. 10.

Concrete Structures: Filter Equipment and Brick Filter House

Greensboro, N. C.

Proposals will be received by the City Council of Greensboro, North Carolina, until 12 o'clock M. Tuesday, October 10th, 1922, for building a Filtration plant and appurtenances.

The work includes the construction and equipment of a six million gallon filter plant, the construction of a coagulation basin with dividing wall, capacity 1,148,000 gallons, and the construction of a mixing chamber. The principal quantities involved are:

8,000 cubic yards of earth excavation.
1,900 cubic yards of concrete.
225,00 pounds of reinforcing steel.
The equipment of six one-million gallon filter units.
80,000 brick laid in filter house walls.
Steel wash water tank of 70,000 gallons capacity.
1,000 GPM motor-operated pump.
Piping, valves, and miscellaneous items.

Plans will be on file and may be seen at the office of the City Manager, Greensboro, N. C., or at the office of The Ludlow Engineers, Winston-Salem, N. C., after September 15th. After that date copies of the Specifications, Bid Blank, and Contract may be obtained from the Engineers or City Manager. For the convenience of prospective bidders, the Engineers will furnish copies of the plans upon application accompanied by a check for ten ($10.00) dollars to cover the cost, or separate prints at one ($1.00) dollar each.

Each bid must be accompanied by a certified check in the sum of $5,000, or 5% of the amount of partial bids.

Proposals will be opened publicly with the usual rights reserved.

P. C. PAINTER,
City Manager.
J. L. LUDLOW,
Consulting Engineer.

Bids: Oct. 9.

Reinforced Concrete Bridge

White Plains, N. Y.

Sealed bids or proposals for the construction of a reinforced concrete arch bridge over the Croton River at the site of the present Van Cortlandt Bridge on the Albany Post Road between the Towns of Cortlandt and Ossining, Westchester County, New York, will be received at the office of the Clerk of the Board of Supervisors, Court House, White Plains, N. Y., until 10:00 a.m., October 9th, 1922.

Proposed bridge to consist of six arches, 48 to 74 foot spans, 40 feet wide.

Specifications, proposal sheets and all information relative to same may be procured at the office of the County Engineer, Court House, White Plains, N. Y., upon making a deposit of ten dollars ($10.00).

BOARD OF SUPERVISORS,
FRED L. MERRITT, Clerk.
September 11, 1922.

OFFICIAL PROPOSALS

Bids: Oct. 10.

Sewage Pumping Station and Grit Chamber

Syracuse, N. Y.

Sealed proposals will be received until 2 o'clock p.m., standard time, October 10, 1922, at the office of the Syracuse Intercepting Sewer Board, 104 City Hall, Syracuse, N. Y., for the machinery and equipment for the Sewage Pumping Station and Grit Chamber now in course of construction at the Sewage Treatment Works of the City of Syracuse.

Equipment included in the contract are the switchboard and control mechanisms, four 24-inch horizontal shaft centrifugal pumps direct-connected to 75 H.P. variable speed A.C. motors, auxiliary vacuum, priming pumps and sump pump, a 10 K.W. motor-generator set, cast iron suction and discharge piping with four 24-inch hydraulically operated gate valves, a 54-inch hydraulically operated sluice gate, three 48-inch by 51-inch electrically operated sluice gates, a 7½ ton hand operated traveling crane, with permission to use same during erection, and a grit cleaning mechanism consisting of tramrail with electrically operated hoist and ¾ cubic yard clam-shell bucket; and all necessary wiring and piping connections. All equipment will be erected upon concrete foundations provided by the Board under another contract.

Proposals must be made on blanks to be furnished upon application and must be accompanied by a New York draft or a certified check for $6,000, which is to be deposited therewith as guarantee that the successful bidder will execute the contract within five days after its award.

Drawings, specifications and form of proposals and contracts are on file in the offices of the Board. Copies thereof may be obtained by depositing $10 to insure their return in acceptable condition on or before November 1, 1922.

HARRY J. HAMLIN,
Secretary.

Bids: Oct. 2.

Combined Sanitary and Storm Sewers

Cape Girardeau, Missouri.

Sealed bids will be received until 2:30 o'clock, P.M., October 2nd, 1922, at the Council Chamber by the City Council for the construction of a combined sanitary and storm sewerage system in sewer district No. 5, in accordance with the plans and specifications therefor on file in the office of the City Clerk. Copies of said plans and specifications may be obtained from C. E. Smith & Co., Consulting Engineers, 2073 Railway Exchange Building, St. Louis, Missouri, or Cape Girardeau, Missouri, by depositing $15.00, one half of which will be refunded upon return of the same in good condition within seven days after the award of the contract.

Full information and proposal forms may be obtained from the Consulting Engineers. Estimated cost of work Three Hundred and Fifty-two Thousand Dollars. The right is reserved to reject any or all bids. Bids will be opened at 2:30 o'clock P.M., Monday, October 2nd, 1922.

A. P. BEHRENS,
City Clerk.

OFFICIAL PROPOSALS

Bids: Sept. 27.

Road Work

Trenton, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the State Highway Commission of New Jersey for the construction of the following:

Route No. 14—Section No. 7—Petersburg-Greenfield, Cape May County; estimated amount of "Borrow Excavation" is 56,606 cubic yards, and of compacted gravel surface 22,926 square yards.

Bids will be received at the office of the State Highwawy Commission at the Broad Street Bank Building, Trenton, New Jersey, on Wednesday, Sept. 27, 1922, at 11:00 A.M., Standard Time, and opened and read immediately thereafter.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on deposit of Ten Dollars ($10.00) upon application to the State Highway Department, 9th floor, Broad Street Bank Building, Trenton, New Jersey. Bids must be made on the standard proposal forms in the manner designated therein and as required by the 1922 specifications, same to be enclosed in sealed special addressed envelopes bearing the name and address of bidder and the name and section of the Route on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten per cent (10%) of the amount of the bid, provided that said certified check shall not be less than $500.00 or more than $20,000.00 and be delivered at the above place on or before the hour named. Copies of the standard proposal form and special addressed envelopes will be furnished on application. Bids not enclosed in special envelopes will be considered informal and will not be opened.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a Statement of Equipment properly filled out.

By order of the State Highway Commission.

A. LEE GROVER,
Chief Clerk.

Bids: Sept. 28.

Laboratory Building

Ithaca, N. Y.

Sealed proposals for Construction, Heating, Sanitary and Electric Work, Addition to Laboratory Building (South Wing—James Law Hall), at the New York State Veterinary College, Cornell University, Ithaca, N. Y., will be received by Mr. C. D. Bostwick, Comptroller, Cornell University, Ithaca, N. Y., until 12 o'clock noon, (Standard Time), on Thursday, September 28, 1922, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent (5%) of the amount of proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specifications Nos. 3472, 3473, 3474 and 3475. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the office of Mr. C. D. Bostwick, Comptroller, Cornell University, Ithaca, N. Y.; at the New York Office of the Department of Architecture, Room 1058, 25 Broadway, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, L. F. Pilcher, Capitol, Albany, N. Y.

Dated: August 28, 1922.

OFFICIAL PROPOSALS

Bids: Oct. 3.

Construction of Inlet

Ft. Lauderdale, Fla.

Notice is hereby given that the Board of County Commissioners, Broward County, Florida, will receive bids until 11:00 o'clock a.m., on Tuesday, October 3rd, 1922, for the construction of an inlet from New River Sound to the Atlantic Ocean, near Ft. Lauderdale, as per plans and specifications on file in the Clerk's Office, Courthouse Bldg., Ft. Lauderdale, Florida. Such work shall be let in two contracts, being as follows:—

(a) The dredging of 81,000 cubic yards more or less of earth; and the dredging of 5,000 cubic yards more or less of rock;

(b) The furnishing and placing of 6200 cubic yards more or less of riprap and jetty hearting and of 2500 tons more or less of jetty capping, all in riprap and jetty construction.

Separate bids will be received and separate contracts let for each of the two classes of work mentioned. Copy of plans and specifications may be secured from the Clerk upon payment of $1.00 to cover cost of printing same.

Each bid shall be accompanied by a certified check in the amount of 3% of the bid, guaranteeing that bidder will make contract and bond within ten days of notice of award.

Bond on each contract will be required in the sum of 50% of the amount bid.

Address all bids to the Board of County Commissioners in care of Frank A. Bryan, Clerk, Ft. Lauderdale, Fla.

The Board reserves the right to reject any and all bids.

By order of the Board. August 22nd, 1922.

H. G. WHEELER,
Chairman.

Attest: FRANK A. BRYAN,
Clerk.
Dated August 22, 1922.

Largest Circulation of Any Technical Paper

Engineering News-Record's circulation—over 30,000 weekly—is the largest of any technical paper printed. It includes among its readers practically every contractor, dealer, and manufacturer in the country who is interested in bidding on public works contracts—either local or outside of his immediate vicinity.

Bids: Sept. 27.

Bridge Paving

Trenton, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the State Highway Commission of New Jersey for the following:

For the removal of present wood block pavement and concrete on Passaic River Bridge, Route No. 1, Lincoln Highway, and replacing of same with a reinforced concrete base and wood block pavement including waterproofing.

The estimated area of roadway surface is 24,000 sq.ft.

Bids for the above will be received at the office of the State Highway Commission, Broad Street Bank Building, Trenton, N. J., on Wednesday, September 27, 1922, at 11:00 A.M., Standard Time, and opened and read immediately thereafter.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, N. J., and office of John L. Vogel, Bridge Engineer, 772 Broad St., Newark, N. J., and may be inspected by prospective bidders. Plans will be furnished on deposit of ten ($10.00) dollars, for doing this work upon application to John L. Vogel, Bridge Engineer, 772 Broad St., Newark, N. J. Bids must be made on the standard proposal forms in the manner designated therein and as required by the specifications for this work; same to be enclosed in sealed special addressed envelopes bearing the name and address of bidder and the work bid upon on the outside, and must be accompanied by a certified check drawn to the order of the State Treasurer for not less than ten (10%) per cent of the amount of the bid, provided that said certified check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the above place on or before the hour named. Copies of the standard proposal form and special addressed envelopes will be furnished on application to John L. Vogel, Bridge Engineer, 772 Broad St., Newark, N. J. Bids not enclosed in special envelopes will be considered informal and will not be opened.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the specifications conditioned for the faithful performance of the provisions of the contract and specifications.

By order o the State Highway Commission.

A. LEE GROVER, Chief Clerk.

OFFICIAL PROPOSALS

Bids: Sept. 26.

Electric Light and Power Plant

Corinth, Miss.

Sealed proposals will be received at the office of the City Clerk of Corinth, Mississippi, up until 7:00 o'clock p.m. of Tuesday, the 26th day of September, 1922, for furnishing materials, labor and constructing according to the plans and specifications, a complete Municipal Electric Light and Power Plant.

The work will be divided into 10 sections. Each section shall be a separate and distinct portion of the work and the Council reserves the right to award the contract by sections, any combination of sections or the work as a whole.

A brief description of each section is as follows:

Section No. 1. Power House Building complete and machinery foundations.

Section No. 2. 5' x 125' reinforced concrete chimney and foundation.

Section No. 3. Two (2) new 300 horsepower horizontal water tube boiler with steel breeching erected complete including brickwork.

Section No. 4. Two (2) new steam engines of the non-releasing corlis or the uniflow type. Size shall be ample to operate a 375 K.V.A. direct connected 3 phase, alternating current generator at 80% power factor. Furnished and erected complete on Purchaser's foundation. Alternate bids may be submitted on complete Turbine driven or oil driven units of same size as above stated.

Section No. 5. Two (2) new 375 K.V.A. 3 phase 60 cycle, 2300 volt, direct connected type alternator, furnished and erected complete on Purchaser's foundation.

Section No. 6. One (1) steam Turbine Driven Exciter and one (1) Electric Motor Driven Exciter Units furnished and erected complete on Purchaser's foundation.

Section No. 7. One (1) six panel Switchboard including wiring connections between switchboard and Exciters and Generators furnished and erected complete.

Section No. 8. Street Light and Pole line material furnished f.o.b. Corinth, Miss.

Section No. 9. Erection of Street Lighting and Distributing System complete.

Section No. 10. Steam piping, Feedwater Heater, Feedwater Pumps, Traps, etc., furnished and erected complete.

A certified check or Bidders Bonds of five (5%) per cent of the amount of each bid made payable to the Treasurer of the City of Corinth, Mississippi, must accompany each bid. Plans and Specifications are on file with the City Clerk at Corinth, Mississippi, and at the office of the Consulting Engineers, Fuller & Beard, Room 616 Title Guaranty Building, St. Louis, Missouri.

Parties desiring extra copies of Plans and Specifications for their personal use may obtain same from the Engineers. A deposit of $10.00 shall be made for a complete set of Plans and Specifications, $6.00 of which will be returned upon the receipt of the plans and specifications in good condition.

Bids must be sealed and addressed to M. T. Sharp, City Clerk, Corinth, Mississippi, and on the outside of the envelope must be plainly written "Proposals for Municipal Electric Light and Power Plant."

The Mayor and City Council especially reserve the right to reject any or all bids and waive informalities.

T. E. HENRY,
Mayor.

M. T. SHARP,
City Clerk.

OFFICIAL PROPOSALS

Bids: Oct. 6.

Substructure for Water Supply Works

Memphis, Tenn.

Sealed proposals, addressed to the Board of Commissioners of the Memphis Artesian Water Department, and endorsed with the bidder's name and designation of the work bid upon will be received at the office of the Memphis Artesian Water Department at Memphis, Tenn., until 12 o'clock noon, of the 6th day of October, 1922, and then publicly opened and read, for the construction at Memphis, Tenn., of a reinforced concrete reservoir and reinforced concrete substructures of a pumping station, iron removal plant and aerator and for the furnishing and installing of cast iron pipe, valves, drains and appurtenant structures, the work being designated as Contract 6.

The quantities of the principal items are roughly as follows:

Excavation	80,000 cu.yds.
Concrete	15,000 cu.yds.
Reinforcing steel	700 tons.
Cast iron pipe and specials	220 tons.
Valves and sluice gates, sizes 4 inch to 48 inch..	75
Venturi meters, sizes 30 inches and 42 inches....	5
Filter rate controllers.....	8

Bids must be made upon the entire work, which will be awarded as a single contract.

Copies of the bidding blanks, bonds, contracts and specifications may be obtained from any of the following offices:

Memphis Artesian Water Department, Memphis, Tennessee.

Fuller & McClintock, 421 Produce Exchange Bldg., Kansas City, Mo.

Fuller & McClintock, 170 Broadway, New York City.

Fuller & McClintock, 319 Summit Cherry Bldg., Toledo, Ohio.

A charge of $20.00 will be made for each set of specifications which charge will be refunded provided the specifications are returned within 30 days after bids are received.

The Water Commission reserves the right to reject any or all bids, to waive any informalities in the bids received, and to accept any bid or bids which they deem most favorable to the interests of the City of Memphis.

By order of the Board of Commissioners of the Memphis Artesian Water Department.

Bids: Oct. 7.

Dredge Work

Atkinson and Alba Townships, Ill.

Sealed bids will be received and opened by the Commissioners of Drainage Union District No. 1 of Atkinson and Alba Townships, Henry County, Illinois, on October 7, 1922, at 2 o'clock P.M., at the Higgins schoolhouse on the Southeast Quarter of Section 15, in Atkinson Township, for the cleaning out and deepening of the Bentley Ditch, the Cunnea Branch, the Irvin Lateral and the Lievens Branch, all being within said district and being a part of its drains. Said work will involve the excavation of approximately 34,282 cubic yards of dirt. Specifications and profiles are on file in the Office of the Clerk of said district in Atkinson, Illinois. Bids must state the amount per cubic yard at which said work will be done. The right is reserved to reject any and all bids.

A. W. ALLEN,
JAY ROOMER,
M. VANDERSNICK,
Commissioners of Drainage Union District No. 1 of Atkinson and Alba Townships, in Henry County, Illinois.

Bids: Oct. 16.

Junior High School Building

Altoona, Pa.

Proposals will be received by the School District of Altoona, Penna., until 8 p.m., October 16th, for the erection and completion of a Junior High School 224 x 232 ft., three stories and basement, fireproof, also proposals for Heating and Ventilation, Plumbing and Electric Work.

Further information will be supplied on application to the Architect.

JULIAN MILLARD,
Registered Architect,
Altoona, Penn.
WM. B. ITTNER,
Consulting Architect.
W. N. DECKER,
Secretary,
Altoona School District.

OFFICIAL PROPOSALS

Bids: Sept. 25.

School Building

Cinnaminson, N. J.

At a meeting of the Board of Education of the Township of Cinnaminson, in the County of Burlington, to be held in the Westfield Public School Building, situate at the intersection of the Moorestown-Riverton Road and Pomona Road, Cinnaminson, Burlington County, New Jersey, on Monday, September 25, 1922, at 8 o'clock in the evening (daylight saving time), separate sealed bids or proposals will be received, opened, and considered for the following:

1. For the erection of, and for all labor, materials, tools and appliances necessary for a two-story and basement brick addition to the said Westfield Public School building, at Cinnaminson, Burlington County, New Jersey.

2. For the construction and installation of, and for all labor, materials, tools, fixtures and appliances necessary for, the heating and ventilating system in said addition to said school building.

3. For the construction and installation of, and for all labor, materials, tools, fixtures and appliances necessary for, the electrical system in said addition to said school building.

4. For the construction and installation of, and for all labor, materials, tools, fixtures and appliances necessary for, the plumbing and drainage system in and for said addition to said school building.

Each proposal shall be based upon plans and specifications for the work prepared by J. Fletcher Street, architect, 129 South Fifth Street, Philadelphia, Pa.; and must be accompanied by a certified check, or by a bid bond issued by a Surety Company authorized to transact business in the State of New Jersey, in favor of the said Board of Education in an amount equal to not less than ten per cent, of the amount of the proposal. Further information as to the terms and conditions of bidding may be obtained upon application to said architect, who will also furnish copies of the said plans and specifications upon deposit of Twenty Dollars for the building plans and specifications and Ten Dollars for the plans and specifications covering each of the other classes of work. Upon return of said plans and specifications promptly after proposals are received said deposits will be refunded.

The Board of Education reserves the right to reject any or all bids or proposals submitted; to waive any informality in the making of the same; and to decide as to the desirability or responsibility of any and all bidders.

By order of the Board of Education of the Township of Cinnaminson.

BENJAMIN LIPPINCOTT,
District Clerk,
Cinnaminson, N. J.

Dated, September 5, 1922.

Bids: Oct. 11.

Repairs to Reservoir

Binghamton, N. Y.

Sealed proposals for Construction—Repairs to Reservoir, at the Binghamton State Hospital, Binghamton, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 3 P.M. (Standard Time) Wednesday, October 11th, 1922, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent (5%) of the amount of proposal. The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specification No. 3972. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the Binghamton State Hospital, Binghamton, N. Y.; at the New York Office of the Department of Architecture, Room 1058, 25 Broadway, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect. L. F. Pilcher, Capitol, Albany, N. Y.

L. M. FARRINGTON,
Secretary, State Hospital Commission.

Dated: September 13, 1922.

OFFICIAL PROPOSALS

Bids: Oct. 3.

Water Works System and Sanitary Sewer System

Haines City, Fla.

Sealed proposals for furnishing material and constructing a Water Works System and a Sanitary Sewer System for the Town of Haines City, Fla., will be received by the Mayor and Council at the City Hall, until 2 P.M., October 3rd, 1922.

The Water Works System will consist of approximately 4 miles of 4 in., 6 in., 8 in. and 10 in. cast iron pipe, with specials, valves and hydrants, a clear water collecting well, pump station and equipment, and a 100,000 gallon elevated tank.

The Sewer System will consist of approximately 1.7 miles of 8 in., 10 in. and 15 in. vitrified pipe, with manholes, flush tanks, and appurtenances, and a settling tank and tile under-drain system.

Each proposal must be accompanied by a certified check, payable to the Town of Haines City, Florida, to an amount equal to five (5) per cent of the bid, as a guarantee that the contract will be entered into if awarded. A bond of one hundred per cent (100%) of the contract price will be required. Payments will be made on monthly estimates.

Plans and specifications are on file in the office of the City Clerk, at Haines City, Florida, and with Paul H. Norcross, Consulting Engineer, 1404 Candler Building, Atlanta, Georgia.

Bidders may obtain copies from the Engineer by enclosing certified check for twenty-five ($25.00) dollars, payable to the Town of Haines City, Florida. If blueprints are desired they may be had at the cost of printing. If the plans, specifications and blue prints are returned within thirty days after opening bids, the check for twenty-five dollars will be returned.

R. O. PHILPOT,
President City Council.
JED R. YALE,
City Clerk.

PAUL H. NORCROSS,
Consulting Engineer,
1404 Candler Building,
Atlanta, Georgia.

Bids: Oct. 16.

Sewers

State College, Pa.

Sealed proposals for building approximately 2,700 linear feet of thirty-six (36) inch Storm Water Sewer, together with inlets, catch basins and connections, will be received until eight (8) o'clock P.M. of October 16, 1922, by the Town Council of the Borough of State College, Centre County, Pa., at which time the bids will be publicly opened in the Council Chamber of the borough. All proposals must be submitted on the forms furnished. A certified check for $200.00 made payable to the Borough of State College must accompany the proposal to insure that the successful bidder will enter into contract with the Borough within ten (10) days from the date of notice of award of contract. Plans and specifications and blank forms of proposal may be obtained from the Borough Engineer or the Secretary of Council. The Borough reserves the right to reject any or all bids.

E. J. WILLIAMS,
Secretary of Council.
H. B. SHATTUCK,
Borough Engineer.

State College, Pa.
Sept. 14, 1922.

Bids: Oct. 2.

Bridge Work

Lansing, Mich.

Sealed Bids will be received by the City Clerk of Lansing, Michigan, up to 4:00 p.m., Monday, October 2, 1922, for the construction of a reinforced concrete combined river and grade separation bridge. Estimated cost, not including property damages, $175,000.

Plans and specifications may be obtained from the City Engineer by making a deposit of $50.00.

W. BINTZ.

OFFICIAL PROPOSALS

Bids: Oct. 6.

Garbage Incinerator

Charleston, W. Va.

Sealed proposals will be received by the undersigned until 2 P.M. on the 6th day of October, 1922, for the construction of a plant for the incineration of all garbage collected by the City of Charleston, West Virginia.

The work to be done includes the construction of a refuse incinerator plant complete, tested, accepted, and ready for operation, including the building, flues, chimney, and all appurtenances, and of a capacity of fifty (50) tons for twenty-four hours.

All proposals must be made upon the forms provided therefor and accompanied by a certified check in the sum equal to two and one-half (2½%) per cent of the amount bid.

The Council of the City of Charleston, West Virginia, reserves the right to reject any or all bids.

Specifications and blank proposals may be obtained at the office of the City Manager, City Building, Charleston, West Virginia.

LON H. BARRINGER,
City Manager.

Bids: Oct. 16.

Sanitary Sewers

State College, Pa.

Sealed proposals for building approximately 13,500 linear feet of 10, 8, 6 and 4 inch Sanitary Sewers and house connections, together with man-holes and lamp-holes, will be received until eight (8) o'clock P.M. of October 16, 1922, by the Town Council of the Borough of State College, Centre County, Penna., at which time the bids will be publicly opened in the Council Chamber of the Borough. All proposals must be submitted on the forms furnished. A certified check for $200.00 made payable to the Borough of State College must accompany the proposal to insure that the successful bidder will enter into contract with the Borough within ten (10) days from the date of notice of award of contract. Plans and specifications and blank forms of proposal may be obtained from the Borough Engineer of the Secretary of Council. The Borough reserves the right to reject any or all bids.

E. J. WILLIAMS,
Secretary of Council.
H. B. SHATTUCK,
Borough Engineer.

State College, Pa.
Sept. 14, 1922.

Bids: Sept. 30.

Bridge Repairs

Trenton, N. J.

Sealed proposals will be received by the Joint Commission for the Elimination of Toll Bridges over the Delaware River, between New Jersey and Pennsylvania, at the State House, Trenton, New Jersey, until noon, Standard Time, Saturday, September 30th, 1922, for the repairs to the bridge over the Delaware River at Washington's Crossing.

Proposals must be submitted on the form furnished by the Commission and accompanied by a certified check for the amount of $1,000, made payable to the Treasurer of the Joint Commission, as a guaranty of good faith.

Plans, specifications and estimates of the quantities are on file at the office of Louis Focht, Engineer, at 125 West State Street, Trenton, New Jersey; this being the address to which the bids are to be sent.

All bids are to be submitted in a sealed envelope marked, "Proposals for repairs to the Washington's Crossing Bridge."

The right is reserved to reject any or all bids and to waive any informality in the bids received.

September 16, 1922.

LOUIS FOCHT,
Engineer to the Joint Commission.

OFFICIAL PROPOSALS

Bids: Dec. 18.

STATE ELECTRICITY COMMISSION OF VICTORIA

Tenders for Plant

Melbourne, Australia.

Tenders are hereby invited for the supply, delivery, etc., of the following for the Morwell Power Scheme.

Copies of Tender Form and Specification and Drawings will be available upon application to: Office of the Bureau of Foreign & Domestic Commerce, United States Department of Commerce, First National Bank Building, CHICAGO, and Office of the Bureau of Foreign & Domestic Commerce, United States Department of Commerce, 734 Custom House, NEW YORK CITY.

SPECIFICATION No. 282. COAL HANDLING PLANT

CHARGE—£2.2.0 for the first 3 copies of Tender Form, Conditions of Contract, Specification and Drawings complete. These charges will be returned on receipt of a bona-fide tender. A fourth copy and any further copies will be supplied for the sum of 10/6 each.

PRELIMINARY DEPOSIT: A Preliminary Deposit of £50.0.0 is to be lodged with tender.

The Specification may be inspected at the above mentioned offices, and also at the office of: The Commissioner for Australia in U. S. A., Room 3012, 61 Broadway, NEW YORK.

The Commission does not bind itself to accept the lowest or any tender.

Tenders on prescribed form, properly endorsed and addressed, must be delivered to the undersigned in Melbourne not later than Noon, 18th December, 1922.

R. LIDDELOW, Secretary.
State Electricity Commission of Victoria,
22-32 William Street,
Melbourne,
Victoria, Australia.

Bids: Oct. 2.

Water Main Extensions

Saranac Lake, N. Y.

Sealed proposals will be received by the Clerk of the Sewer and Water Board of the Village of Saranac Lake, N. Y., until 8:00 o'clock P.M. on Monday, October 2nd, 1922, for the construction of the following extensions to the existing water distribution system of said Village.

2,700 feet of 10 inch, Class No. 100 Universal Water Mains.
4,500 feet of 6 inch, Class No. 130 Universal Water Mains.
2 10 in. Gate Valves and Wayboxes.
12 6 in. Gate Valves and Wayboxes.
22 Double Nozzle Fire Hydrants.

The above quantities are approximate only, for a basis for a uniform comparison of bids.

Bids must be made on proposal blanks furnished by the Sewer and Water Board and must be accompanied by a Certified Check to the amount of $500.00 drawn payable to S. A. Miller, Clerk of the Board.

Proposals must be sealed and delivered to the Clerk and indorsed "Proposals for construction of water mains."

Plans may be seen and proposal blanks, form of contract and specifications secured upon application to the Clerk.

The Sewer and Water Board reserves the right to reject any and all bids.

By order of the Sewer and Water Board.
S. A. MILLER, Clerk,
Saranac Lake, N. Y.
JOHN L. COLLINS, Engineer,
30 Church St., N. Y.

Swart Service Really Serves.
That's worth reading again.

SWART
Contract Bonds
Compensation Insurance
92 William St., New York

OFFICIAL PROPOSALS

Bids: Sept. 28.

Laying Cast Iron Water Pipe and Appurtenances

Poughkeepsie, N. Y.

Sealed proposals will be received by the Board of Public Works at its offices in Eastman Park Mansion on or before 4:00 p.m., (Daylight Saving Time), Thursday, September 28th, 1922, for the laying of cast iron water pipe and appurtenances.

Plans, specifications, form of proposal, bond and contract may be obtained at the office of the Superintendent of Public Works, Poughkeepsie, N. Y., and at the office of Hazen, Whipple and Fuller, Consulting Engineers, 30 East 42nd Street, New York City, upon the deposit of Twenty-five ($25.00) Dollars, which amount will be refunded upon the return of the plans and specifications in good condition.

Quantities of work to be done are approximately:

CONTRACT A

Item 1: 4,800 cubic yards of trench excavation in earth.
Item 2: 3,200 cubic yards of trench excavation in rock.
Item 3: Laying 11,100 linear feet of 24" cast iron pipe furnished by the Board.
Item 4: Placing 50 tons of specials furnished by the Board.
Item 5: Placing gates furnished by Board. Lump sum.
Item 6: Making connections to existing pipes. Lump sum.
Item 7: 80 cubic yards of concrete in agate chambers.
Item 8: 12 cubic yards of concrete in trench.
Item 9: 1,600 pounds steel reinforcing.
Item 10: Supporting tracks. Lump sum.
Item 11: Creek crossing. Lump sum.
Item 12: Sheeting left in place.
Item 13: Appurtenances.

CONTRACT B

Item 14: 5,400 cubic yards of excavation in earth.
Item 15: 1,500 cubic yards of excavation in rock.
Item 16: Laying 3,720 linear feet of 20" cast iron pipe furnished by the Board.
Item 17: Laying 5,910 linear feet of 24" cast iron pipe furnished by the Board.
Item 18: Laying 165 linear feet of 30" cast iron pipe furnished by the Board.
Item 19: Placing 45 tons of specials furnished by the Board.
Item 20: Placing gates furnished by the Board. Lump sum.
Item 21: Making connections to existing pipes. Lump sum.
Item 22: 75 cubic yards of concrete in gate chambers.
Item 23: 15 cubic yards of concrete in trench.
Item 24: 1,700 pounds steel reinforcing.
Item 25: Supporting tracks. Lump sum.
Item 26: Creek crossing. Lump sum.
Item 27: Sheeting left in place.
Item 28: Appurtenances.

The proposal shall be accompanied by a certified check drawn upon an incorporated State or National Bank or Trust Company in good credit, within this State, payable to the order of the City of Poughkeepsie for five per cent of the amount of the bid. The successful bidder will be required to give a satisfactory bond for the faithful performance of the agreement in amount equal to fifty per cent of the value of the contract.

The Board of Public Works reserves the right to reject any or all bids.

By order of the Board of Public Works.
THOMAS F. LAWLOR,
Supt.

HAZEN, WHIPPLE & FULLER,
Consulting Engineers,
30 East 42nd Street,
New York City.

CONTRACT BONDS FOR RESPONSIBLE CONTRACTORS

Treat your bonding company as you do your banker; both help you with the CREDIT you require.

ÆTNA CASUALTY AND SURETY COMPANY
HARTFORD, CONN. AGENTS EVERYWHERE

OFFICIAL PROPOSALS

Bids: Oct. 3.

Sewer Extensions

Saranac Lake, N. Y.

Sealed proposals will be received by the Clerk of the Sewer and Water Board of the Village of Saranac Lake, N. Y., until 8:00 P.M. on Monday, Oct. 2nd, 1922, for the construction of sewers in the said Village, as follows:

900 feet of 8 inch sewer.
5,500 feet of 6 inch sewer.
32 Manholes.

The above quantities are approximate, only for a basis of a uniform comparison of bids.

Bids must be made on proposal forms furnished by the Sewer and Water Board and must be accompanied by a certified check to the amount of $500.00 drawn payable to S. A. Miller, Clerk of the Board.

Proposals must be sealed and delivered to the Clerk, indorsed "Proposal for the construction of Sewers."

Plans may be seen, and Proposal blanks, form of Contract and Specifications may be secured at the office of the Clerk.

The Sewer and Water Board reserves the right to reject any and all bids.

By order of the Sewer and Water Board.
S. A. MILLER, Clerk,
Saranac Lake, N. Y.
JOHN L. COLLINS, Engineer,
30 Church St., N. Y.

U. S. GOVERNMENT

U. S. ENGINEER OFFICE, Buffalo, N. Y.—Sealed proposals will be received here until 11 a.m. (Eastern Standard Time), September 28, 1922, and then opened, for dredging and rock excavation in Sandusky Harbor, Ohio. Further information on application.

PROPOSAL FOR SPURDIKES.—U. S. Engineer Office, 329 Customhouse, New Orleans, La.—Sealed proposals will be received here until 9.00 a.m., October 3, 1922, and then opened, for construction of spurdikes at Southwest Pass, Mississippi River. Further information on application.

U. S. GOVERNMENT

OFFICE OF THE CONSTRUCTING QUARTERMASTER, ABERDEEN PROVING GROUND, MD. Sealed proposals will be received in this office until 10:00 A.M., September 30, 1922, and then opened, for construction of twenty frame stable buildings, 29 feet x 140 feet, each for fifty-two horses, at Edgewood Arsenal, Md. Plans and specifications may be obtained at this office, upon the deposit of $10.00, which will be refunded upon the return of same in good condition, or they may be seen at the Quartermaster's Office, Edgewood Arsenal, Md. The right is reserved to accept any or to reject all bids for this project.

OFFICE OF THE CONSTRUCTING QUARTERMASTER, ABERDEEN PROVING GROUND, MD. Sealed proposals will be received in this office until 10:00 A.M., October 18, 1922, and then opened, for the construction of twenty sets of officers' quarters, at Edgewood Arsenal, Md. Plans and specifications may be obtained at this office upon the deposit of $10.00, which will be refunded upon the return of same in good condition, or they may be seen at the Quartermaster's Office, Edgewood Arsenal, Md. The right is reserved to accept any or to reject all bids for this project.

U. S. ENGINEER OFFICE, SAVANNAH, Ga.—Sealed proposals will be received here until 12 noon, September 26, 1922, and then opened, for repairing training walls in Savannah Harbor, Ga. Further information on application.

U. S. ENGINEER OFFICE, HONOLULU, T. H., August 10, 1922.—Sealed proposals will be received here until 11 a.m., October 31, 1922, and then opened, for dredging in Honolulu Harbor, T. H. Further information on application here or to U. S. Engineer Office, 401 Customhouse, San Francisco, Calif.

U. S. ENGINEER OFFICE, NASHVILLE, TENN.—Sealed proposals will be received here until 11 a.m., Oct. 23, 1922, and then opened, for 3 steel dump scows. Further information on application.

U. S. GOVERNMENT

U. S. ENGINEER OFFICE, Room 710, Army Building, 39 Whitehall Street, New York, N. Y. Sealed proposals will be received here until 12 m., October 5, 1922, and then opened, for dredging and rock removal in East River, N. Y. Further information on application.

U. S. ENGINEER OFFICE, MOBILE, ALA.—Sealed proposals will be received here until 11 o'clock a.m., Oct. 10, 1922, and then opened, for the construction of one 100-ft. Diesel-Electric towboat. Further information on application.

U. S. ENGR. OFFICE, WILMINGTON, DEL.—Sealed proposals will be received here until 11 A.M., October 6, 1922, and then opened, for dredging Tuckerton Creek, N. J. Further information on application.

PROPOSALS FOR CEMENT.—Office, Mississippi River Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn.—Sealed proposals for furnishing and delivering 24,000 sacks of Portland Cement will be received at this office until 11 a.m., Sept. 27, 1922, and then opened. Further information on application.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., September 8, 1922.—Sealed proposals will be opened in this office at 3 p.m., October 6, 1922, for the construction, including mechanical equipment, of the United States Post Office at Charles Town, W. Va. Drawings and specifications may be obtained from the Custodian of the site at Charles Town, W. Va., or at this office in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

POSITIONS VACANT — EMPLOYMENT — POSITIONS WANTED

POSITIONS VACANT

ASPHALT inspector capable of controlling mix for sheet asphalt and asphaltic concrete paving mixtures. P-946, Eng. News-Record, Real Estate Trust Bldg., Phila., Pa.

A STRUCTURAL steel plant located west of Chicago wants a capable and experienced structural engineer to fill a position of responsibility in its engineering department. Position calls for a man of executive capacity. Applicant must have had experience in detailing, checking and designing, and be familiar and experienced with the use of structural steel in connection with building work. State fully age, nationality, education and experience in first letter. P-918, Eng. News-Record, Old Colony Bldg., Chicago, Ill.

CAPABLE coffer-dam foreman wanted for hydro-electric work in South America; must speak Spanish. P-995, Eng. News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

CARPENTER foreman, experienced in groined arch forms for concrete work. Reply give experience and salary expected. P-917, Eng. News-Record.

DESIGNER and estimator on reinforced concrete, docks, bulkheads, etc., wanted by contracting company; prefer graduate engineer between ages 25 and 30. Box No.

DRAFTSMEN civil, structural, mechanical and electrical men for power plant design and detailing. State fully experience, salary requirements, reporting date. Smith, Hinchman and Grylls, Marquette Building, Detroit, Michigan.

POSITIONS VACANT

DRAFTSMEN, thoroughly experienced in making and checking shop drawings for structural shop. Positions permanent to competent men. Apply giving full information. Whitehead and Kales Company, 2361 Beecher Avenue, Detroit, Mich.

POSITIONS VACANT

DRAFTSMEN; experienced in design of elevating and conveying machinery and structural steel. Positions will probably lead to certain amount of sales work. Give full details of experience and salary expected. P-969, Eng. News-Record.

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